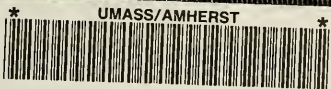


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THE  
ANNUAL STATISTICS  
OF  
MANUFACTURES.

---

1893.

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*With compliments of  
Horace G. Wadlin,*

*Chief of Bureau of Statistics of Labor.*



THE  
ANNUAL STATISTICS  
OF  
MANUFACTURES.

---

1893.

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EIGHTH REPORT.

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BOSTON:  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,  
18 POST OFFICE SQUARE.  
1894.



# Commonwealth of Massachusetts.

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BUREAU OF STATISTICS OF LABOR,  
CLAFLIN BUILDING, 20 BEACON STREET,  
BOSTON, July 15, 1894.

TO THE HONORABLE SENATE AND HOUSE OF REPRESENTATIVES:


I have the honor to transmit, herewith, the Annual Statistics of Manufactures for the year 1893, which have been collected and are presented in compliance with Chapter 174, Acts of 1886.

Very respectfully,

HORACE G. WADLIN,  
*Chief.*

[iii]





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Truro, . . . .	393	Weymouth, . . . .	396
Tyngsborough, . . . .	393	Whitman, . . . .	396
		Wilbraham, . . . .	396
Upton, . . . .	393	Williamsburg, . . . .	396
Uxbridge, . . . .	393	Williamstown, . . . .	397
		Winchendon, . . . .	397
Wakefield, . . . .	393	Winchester, . . . .	397
Wales, . . . .	393	Windsor, . . . .	397
Walpole, . . . .	393	WOBURN, . . . .	397
WALTHAM, . . . .	394	WORCESTER, . . . .	397, 398
Ware, . . . .	394	Wrentham, . . . .	398
Wareham, . . . .	394		
Warren, . . . .	394	Yarmouth, . . . .	398
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# THE ANNUAL STATISTICS OF MANUFACTURES. 1893.

## INTRODUCTION.

This volume is the eighth report on Annual Statistics of Manufactures, issued in accordance with the provisions of Chapter 174 of the Acts of 1886.

The following table indicates the number of returns considered in these annual reports, in each year, beginning with 1886:

YEARS.	Number of Establishments Considered	YEARS.	Number of Establishments Considered
1886, . . . . .	1,027	1890, . . . . .	3,041
1887, . . . . .	1,027	1891, . . . . .	3,745
1888, . . . . .	1,140	1892, . . . . .	4,473
1889, . . . . .	1,364	1893, . . . . .	4,397

From the above table it will be seen that the number of returns entering into the comparisons in 1893 included 4,397 establishments, as against 1,027 included in the first volume of the series. The whole number of returns received in 1893 included 4,570 establishments; this number is larger than the number entering into the comparisons with those received in 1892, inasmuch as only such returns can be compared as are derived from the same establishments in each of the years.

The total number of establishments making returns in the Decennial Census of 1885, in the same industries, was 19,072. These, however, included a large number of small establishments in which comparatively few persons were employed. In the following table we present the output in the establishments

making returns in 1893, and also the output in the establishments making returns, in the same industries, in the Decennial Census of 1885:

INDUSTRIES.	1885		1893	
	Number of Establishments	Value of Goods Made and Work Done	Number of Establishments	Value of Goods Made and Work Done
Agricultural implements, . . . . .	30	\$1,324,597	11	\$1,141,502
Arms and ammunition, . . . . .	40	2,058,879	13	2,199,083
Artisans' tools, . . . . .	140	2,509,107	67	2,659,834
Awnings, sails, tents, etc., . . . . .	14	108,579	40	452,807
Boots and shoes, . . . . .	2,366	114,729,533	754	97,912,853
Boxes (paper and wooden), . . . . .	215	4,332,505	142	4,700,698
Brick, tiles, and sewer pipe, . . . . .	114	1,541,879	50	1,398,685
Brooms, brushes, and mops, . . . . .	72	1,365,373	21	1,424,790
Burial cases, caskets, coffins, etc., . . . . .	113	770,333	6	328,675
Buttons and dress trimmings, . . . . .	16	1,016,153	19	1,326,105
Carpetings, . . . . .	46	6,536,341	11	7,427,385
Carriages and wagons, . . . . .	1,013	7,277,983	137	4,226,974
Cement, kaolin, lime, and plaster, . . . . .	16	239,875	7	250,245
Chemical preparations (compounded), . . . . .	23	1,165,134	10	936,423
Clocks, watches, and jewelry, . . . . .	54	3,372,699	105	5,871,826
Clothing, . . . . .	2,402	32,659,837	142	24,398,876
Cooking, lighting, and heating apparatus, . . . . .	65	3,131,582	37	3,249,477
Cordage and twine, . . . . .	52	5,077,261	27	8,144,201
Corks, bungs, and taps, . . . . .	4	144,000	4	54,762
Cotton goods, . . . . .	165	61,425,097	155	88,903,158
Cotton, woollen, and other textiles, . . . . .	4	2,394,583	3	2,798,118
Crayons, pencils, crucibles, etc., . . . . .	7	104,490	3	38,843
Drugs and medicines, . . . . .	916	4,722,838	23	3,101,935
Dyestuffs, . . . . .	9	789,973	5	553,833
Earthen, plaster, and stone ware, . . . . .	22	433,213	7	324,436
Electrical apparatus and appliances, . . . . .	40	1,397,737	17	4,826,570
Electroplating, . . . . .	35	214,507	11	106,526
Emery and sand paper and cloth, etc., . . . . .	13	566,101	10	645,339
Fancy articles, etc., . . . . .	18	81,981	5	133,810
Fertilizers, . . . . .	17	2,778,987	5	109,801
Fine arts and taxidermy, . . . . .	23	42,124	3	23,498
Fireworks and matches, . . . . .	5	91,210	2	90,270
Flax, hemp, jute, and linen goods, . . . . .	12	2,562,112	7	3,059,759
Food preparations, . . . . .	1,716	80,535,219	308	74,463,637
Furniture, . . . . .	603	12,716,908	129	7,953,427
Glass, . . . . .	20	1,091,949	9	453,924
Glue, isinglass, and starch, . . . . .	29	1,306,363	18	1,284,525
Hair work (animal and human), . . . . .	55	442,061	9	474,300
Hose: rubber, linen, etc., . . . . .	3	790,480	3	786,483
Hosiery and knit goods, . . . . .	60	4,196,522	43	5,728,131
Ink, muellage, and paste, . . . . .	20	131,626	9	412,973
Ivory, bone, shell, and horn goods, etc., . . . . .	39	1,628,413	10	428,510
Leather, . . . . .	699	28,008,851	197	17,049,309
Liquors and beverages (not spirituous), . . . . .	63	641,216	23	742,636
Liquors: malt, distilled, and fermented, . . . . .	218	7,881,240	54	8,879,218

INDUSTRIES.	1885		1893	
	Number of Establishments	Value of Goods Made and Work Done	Number of Establishments	Value of Goods Made and Work Done
Lumber, . . . . .	466	\$3,627,345	23	\$2,615,980
Machines and machinery, . . . . .	622	20,365,970	348	28,720,333
Metals and metallic goods, . . . . .	2,732	41,332,005	350	23,163,376
Mixed textiles, . . . . .	13	1,323,861	13	1,633,299
Models, lasts, and patterns, . . . . .	51	253,242	46	795,684
Musical instruments and materials, . . . . .	93	6,145,008	56	3,978,102
Oils and illuminating fluids, . . . . .	28	2,294,931	10	971,265
Paints, colors, and crude chemicals, . . . . .	22	763,034	20	1,247,716
Paper and paper goods, . . . . .	148	21,223,626	101	23,176,387
Perfumes, toilet articles, etc., . . . . .	10	409,801	5	252,419
Photographs and photographic materials, . . . . .	241	936,165	17	236,766
Polishes and dressing, . . . . .	65	1,788,412	30	1,834,405
Printing, publishing, and bookbinding, . . . . .	712	16,552,475	34	4,447,606
Print works, dye works, and bleacheries, . . . . .	96	15,880,843	46	19,213,815
Railroad construction and equipment, . . . . .	15	2,153,224	14	7,255,656
Rubber and elastic goods, . . . . .	41	12,633,741	35	20,969,903
Scientific instruments and appliances, . . . . .	65	1,227,683	15	1,583,069
Shipbuilding, . . . . .	279	2,107,986	61	1,136,792
Silk and silk goods, . . . . .	12	3,501,240	12	3,939,629
Sporting and athletic goods, . . . . .	27	1,079,966	8	512,686
Stone, . . . . .	378	5,503,569	179	4,285,005
Straw and palm leaf goods, . . . . .	47	6,265,287	21	4,755,273
Tallow, candles, soap, and grease, . . . . .	155	3,474,890	62	3,414,700
Tobacco, snuff, and cigars, . . . . .	302	2,813,084	43	3,235,952
Toys and games (children's), . . . . .	15	316,895	8	536,730
Trunks and valises, . . . . .	25	346,720	7	240,013
Whips, lashes, and stocks, . . . . .	60	1,052,401	10	987,538
Wooden goods, . . . . .	534	4,767,726	175	5,597,294
Woollen goods, . . . . .	189	31,748,278	129	28,372,053
Worsted goods, . . . . .	23	11,198,148	21	16,240,380
ALL INDUSTRIES, . . . . .	19,072	\$629,444,927	4,570	\$606,882,976

The 4,570 establishments, in the different industries, returned an aggregate value of goods made and work done in 1893 of \$606,882,976. This product value, returned from these leading establishments in 1893 is 96.42 per cent of the product value returned by the 19,072 establishments in 1885. This, of itself, indicates the representative character of the returns which form the basis of the present report.

In connection with the Industrial Chronology given in this report we append the following table showing the establishments in the various industries which, for some specified cause, were not engaged in manufacturing during 1893, together with the value of goods made and work done by them in 1892 :

INDUSTRIES.	Number of Establishments Reporting	Value of Goods Made and Work Done in 1892
Arms and ammunition, . . . . .	2	\$17,742
Artisans' tools, . . . . .	2	53,000
Awnings, sails, tents, etc., . . . . .	2	3,100
Boots and shoes, . . . . .	73	5,239,525
Boxes (paper and wooden), . . . . .	6	41,241
Brick, tiles, and sewer pipe, . . . . .	1	3,600
Brooms, brushes, and mops, . . . . .	1	7,150
Buttons and dress trimmings, . . . . .	1	124,266
Carpetings, . . . . .	3	539,529
Carriages and wagons, . . . . .	5	123,050
Clocks, watches, and jewelry, . . . . .	3	111,340
Clothing, . . . . .	8	862,746
Cordage and twine, . . . . .	3	1,311,641
Cotton goods, . . . . .	6	256,340
Drugs and medicines, . . . . .	2	3,120
Electrical apparatus and appliances, . . . . .	2	187,120
Emery and sand paper and cloth, etc., . . . . .	2	80,159
Fancy articles, etc., . . . . .	1	900
Fireworks and matches, . . . . .	1	5,000
Flax, hemp, jute, and linen goods, . . . . .	1	26,278
Food preparations, . . . . .	16	193,325
Furniture, . . . . .	15	402,235
Glass, . . . . .	1	12,400
Glue, isinglass, and starch, . . . . .	1	510
Hair work (animal and human), . . . . .	1	3,500
Hosiery and knit goods, . . . . .	2	14,935
Ivory, bone, shell, and horn goods, etc., . . . . .	1	10,255
Leather, . . . . .	9	1,046,116
Liquors: malt, distilled, and fermented, . . . . .	1	7,988
Lumber, . . . . .	3	27,700
Machines and machinery, . . . . .	11	169,683
Metals and metallic goods, . . . . .	16	516,375
Mixed textiles, . . . . .	1	314,735
Models, lasts, and patterns, . . . . .	1	26,800
Musical instruments and materials, . . . . .	1	25,000
Paints, colors, and crude chemicals, . . . . .	2	191,636
Paper and paper goods, . . . . .	2	114,430
Photographs and photographic materials, . . . . .	1	42,527
Printing, publishing, and bookbinding, . . . . .	2	22,907
Saddlery and harness, . . . . .	2	69,700
Scientific instruments and appliances, . . . . .	5	220,842
Shipbuilding, . . . . .	7	301,576
Sporting and athletic goods, . . . . .	1	8,498
Stone, . . . . .	10	212,795
Tallow, candles, soap, and grease, . . . . .	1	27,500
Tobacco, snuff, and cigars, . . . . .	2	62,941
Toys and games (children's), . . . . .	1	31,250
Wooden goods, . . . . .	10	375,504
Woollen goods, . . . . .	18	1,586,174
Worsted goods, . . . . .	2	398,317
TOTALS, . . . . .	271	\$15,445,001



The establishments included in the preceding table, 271 in number, reported a product of \$15,445,001 in 1892, and, owing to certain causes, which are enumerated in the following table, were not engaged in manufacturing during the year 1893 :

CLASSIFICATION OF CAUSES.	Number of Establishments Reporting	Value of Goods Made and Work Done in 1892
Insolvent, . . . . .	51	\$5,139,111
Shut down entire year on account of legal troubles, . .	3	93,619
Closed out owing to competition, . . . . .	2	50,183
Gave up manufacturing; buying and selling only, . .	36	1,458,182
Removed from Massachusetts, . . . . .	14	279,503
Shut down and moved away on account of labor troubles, .	1	250,000
Dissolved partnership, . . . . .	5	86,059
Out of business; no successor, . . . . .	54	3,762,683
Shut down entire year owing to business uncertainty, . .	38	682,189
Shut down entire year on account of ill-health, . . .	7	104,946
Destroyed by fire, . . . . .	20	866,154
Sold out plant and business, . . . . .	25	2,183,371
Deceased, . . . . .	15	488,996
TOTALS, . . . . .	271	\$15,445,001

It is seen from the above table that 51 establishments turning out a product value of \$5,139,111, in 1892, were unable to make return in 1893 owing to the fact that they were insolvent; 36 gave up manufacturing and confined their efforts to buying and selling because, as they reported, it was impossible to manufacture under existing conditions. Fourteen establishments removed from the State and one closed up and moved away owing to labor troubles. Fifty-four retired from business permanently, having no successors; five dissolved partnership, two closed out owing to competition, three shut down owing to litigation, and 25 sold out plant and business. It is also seen that 38 establishments shut down the entire year owing to business uncertainty; seven on account of ill health, 15 owing to the death of the proprietors, and 20 by being burned out.

In the Report on the Statistics of Manufactures for 1892 a series of tables was presented, derived from Bulletins of the United States Census Office, showing the industrial statistics of 19 leading cities in the Commonwealth according to the National Census of 1890, and also showing from the same

census the condition of the following industries in this State : Cotton ; Wool ; Silk ; Dyeing and Finishing Textiles ; Iron ; Steel ; Mines and Mining ; and the use of Distilled Spirits. Reports of the Census of 1890 subsequently published enable the presentation of aggregates for the State respecting the

CLASSIFICATION OF MANUFACTURING AND MECHANICAL INDUSTRIES.		Number of Establishments Reporting
1	Agricultural implements, . . . . .	17
2	Blacksmithing and wheelwrighting, . . . . .	1,379
3	Boots and shoes (custom work and repairing), . . . . .	1,380
4	Boots and shoes (factory product), . . . . .	1,057
5	Bread and other bakery products, . . . . .	703
6	Brick and tile, . . . . .	110
7	Carpentering, . . . . .	2,050
8	Carpets and rugs (other than rag), . . . . .	7
9	Carriages and wagons (including custom work and repairing), . . . . .	430
10	Cars and general shop construction and repairs by steam railroad companies, . . . . .	14
11	Cars: steam railroad (not including operations of railroad companies), . . . . .	3
12	Cheese, butter, and condensed milk (factory product), . . . . .	29
13	Chemicals, . . . . .	38
14	Clothing: men's (custom work and repairing), . . . . .	1,035
15	Clothing: men's (factory product), . . . . .	221
16	Clothing: women's (dressmaking), . . . . .	2,569
17	Clothing: women's (factory product), . . . . .	44
18	Coffee and spice (roasting and grinding), . . . . .	23
19	Confectionery, . . . . .	213
20	Cooperage, . . . . .	81
21	Cordage and twine, . . . . .	32
22	Cotton goods, . . . . .	187
23	Fertilizers, . . . . .	16
24	Flouring and grist mill products, . . . . .	238
25	Foundry and machine shop products, . . . . .	711
26	Furniture (factory product), . . . . .	136
27	Gas (illuminating and heating), . . . . .	72
28	Glass, . . . . .	6
29	Hats and caps (not including wool hats), . . . . .	54
30	Hosiery and knit goods, . . . . .	74
31	Iron and steel, . . . . .	13
32	Iron and steel, nails and spikes (cut and wrought), including wire nails, . . . . .	40
33	Iron work (architectural and ornamental), . . . . .	26
34	Jewelry, . . . . .	106
35	Leather (tanned and curried), . . . . .	133
36	Liquors (distilled), . . . . .	8
37	Liquors (malt), . . . . .	26
38	Lumber and other mill products from logs or bolts, . . . . .	464
39	Lumber: planing mill products (including sashes, doors, and blinds), . . . . .	164
40	Marble and stone work, . . . . .	122
41	Masonry (brick and stone), . . . . .	745
42	Millinery (custom work), . . . . .	653
43	Painting and paper hanging, . . . . .	1,295

number of establishments, capital invested, value of stock used, miscellaneous expenses, value of goods made and work done, average number of persons employed (operatives, clerks, officers, etc.), and total amount paid in wages and salaries in 63 industries as classified in the following table :

Amount of Capital Invested	Value of Stock Used	Miscellaneous Expenses	Value of Goods Made and Work Done	Average Number of Persons Employed (operatives, clerks, officers, etc.)	Total Amount Paid in Wages and Salaries	
\$1,817,750	\$664,235	\$81,876	\$1,470,085	787	\$448,927	1
2,150,508	1,072,349	215,066	4,206,829	3,257	2,088,704	2
393,292	527,820	165,518	1,936,253	2,144	1,067,866	3
44,567,702	63,928,182	5,568,233	116,387,900	69,934	34,949,698	4
2,775,676	5,923,736	548,753	10,755,915	4,479	2,471,186	5
3,014,277	593,587	156,191	2,314,406	3,261	1,090,450	6
9,299,845	16,915,143	1,236,933	34,336,615	17,092	12,088,985	7
8,676,924	4,731,873	367,164	7,275,009	5,144	1,892,072	8
5,495,873	3,163,947	370,769	7,607,869	4,641	2,969,541	9
1,988,676	1,890,705	-	2,712,763	2,289	1,298,228	10
843,331	483,919	29,169	810,583	418	227,072	11
118,781	484,798	10,951	576,742	91	51,754	12
1,572,643	1,009,898	336,506	2,044,623	624	391,823	13
3,018,610	2,979,054	1,106,589	8,501,602	5,872	3,267,873	14
11,254,626	11,865,905	2,521,163	21,242,647	8,196	3,733,499	15
1,006,832	2,088,442	432,512	6,517,041	8,752	3,011,934	16
592,161	924,463	112,078	1,863,517	1,478	553,551	17
1,403,154	3,020,332	107,344	3,568,259	254	174,076	18
1,560,049	3,164,741	278,433	5,291,844	2,413	1,021,957	19
614,857	540,779	33,395	986,458	604	328,021	20
8,168,593	7,688,142	372,447	10,510,530	3,436	1,230,269	21
123,838,837	56,586,283	6,675,285	100,202,882	76,213	26,230,667	22
1,720,605	1,119,951	54,910	1,910,920	331	204,427	23
2,908,303	5,959,480	169,674	6,906,493	770	386,158	24
36,621,187	14,447,803	3,040,866	38,906,680	25,027	15,492,917	25
3,457,794	2,623,947	341,571	6,166,522	3,679	2,266,725	26
26,063,751	1,747,013	848,895	6,203,125	1,423	1,062,382	27
365,051	127,180	35,760	431,437	514	219,427	28
1,052,362	1,385,981	171,595	3,138,226	2,437	962,229	29
4,497,940	2,552,705	315,786	5,082,087	4,675	1,495,260	30
4,337,118	1,979,546	169,045	2,891,687	1,604	788,065	31
2,906,894	1,669,317	184,087	3,144,083	1,748	894,897	32
995,918	797,786	55,244	1,775,188	834	518,073	33
4,276,610	1,803,444	405,526	5,507,415	3,797	2,160,956	34
9,002,929	16,137,829	638,128	21,656,425	5,852	3,343,688	35
608,333	279,662	924,630	1,372,807	55	42,598	36
6,003,344	2,064,079	1,320,173	5,355,438	968	873,239	37
5,002,033	2,682,932	312,654	5,109,998	3,214	1,194,253	38
4,709,515	4,304,891	324,138	8,112,101	3,816	2,471,623	39
1,803,464	954,926	163,698	3,008,871	2,217	1,453,042	40
5,476,324	7,993,115	540,782	17,580,907	10,384	7,287,066	41
1,081,568	1,848,684	331,861	3,700,393	2,276	899,557	42
1,886,949	1,923,091	286,840	7,218,039	6,145	4,100,858	43

CLASSIFICATION OF MANUFACTURING AND MECHANICAL INDUSTRIES.		Number of Establishments Reporting
1	Paints, . . . . .	26
2	Paper, . . . . .	85
3	Patent medicines and compounds, . . . . .	123
4	Paving and paving materials, . . . . .	40
5	Plumbing and gas fitting, . . . . .	603
6	Printing and publishing (book and job), . . . . .	404
7	Printing and publishing (newspapers and periodicals), . . . . .	409
8	Saddlery and harness, . . . . .	418
9	Shipbuilding, . . . . .	147
10	Shirts (factory product), . . . . .	38
11	Silk and silk goods, . . . . .	20
12	Slaughtering and meat packing (wholesale), . . . . .	14
13	Slaughtering, wholesale (not including meat packing), . . . . .	10
14	Soap and candles, . . . . .	76
15	Sugar and molasses (refining), . . . . .	4
16	Timber products (not manufactured at mill), . . . . .	24
17	Tinsmithing, coppersmithing, and sheet iron working, . . . . .	406
18	Tobacco, cigars, and cigarettes, . . . . .	338
19	Woollen goods, . . . . .	165
20	Worsted goods, . . . . .	33
21	TOTALS, . . . . .	20,122

The following series of tables, taken from the United States Census Bulletins, present aggregates respecting capital invested, value of hired property, value of stock used, miscellaneous expenses, value of goods made and work done, average num-

## BOSTON.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Number of establishments, . . . . .	7,942	Value of stock used — Con.	
Total amount of capital invested, \$118,198,539		Fuel, . . . . .	\$1,119,838
Land, . . . . .	\$9,381,608	Rent of power and heat, . . . . .	\$335,027
Buildings, . . . . .	\$12,142,689	Mill supplies, . . . . .	\$243,080
Machinery, implements, and tools, . . . . .	\$25,763,722	All other materials, . . . . .	\$6,759,878
Raw materials, . . . . .	\$14,812,088	Miscellaneous expenses, . . . . .	\$21,543,956
Stock in process and finished products on hand, . . . . .	\$22,063,319	Rent paid for tenancy, . . . . .	\$4,167,158
Cash and credit capital, . . . . .	\$34,035,113	Taxes, . . . . .	\$1,968,371
Value of hired property, . . . . .	\$55,800,301	Insurance, . . . . .	\$632,260
Value of stock used, . . . . .	\$105,602,569	Repairs (ordinary) of buildings and machinery, . . . . .	\$978,507
Principal materials, . . . . .	\$97,144,746	Amount paid to contractors, . . . . .	\$2,743,926
		Interest paid on cash used in the business, . . . . .	\$897,475



Amount of Capital Invested	Value of Stock Used	Miscellaneous Expenses	Value of Goods Made and Work Done	Average Number of Persons Employed (operatives, clerks, officers, etc.)	Total Amount Paid in Wages and Salaries	
\$1,012,336	\$821,277	\$102,111	\$1,346,776	353	\$209,213	1
22,467,036	12,210,458	1,832,753	21,524,173	8,111	3,906,641	2
1,615,478	1,430,193	1,431,463	4,178,915	1,027	539,917	3
294,541	262,884	33,887	681,223	549	267,873	4
2,714,334	3,759,369	284,570	8,114,541	4,532	3,017,097	5
4,674,622	1,936,758	1,020,004	6,899,236	4,233	2,477,967	6
7,531,827	2,902,340	3,070,184	12,019,706	5,996	4,144,307	7
888,379	740,189	115,234	1,900,971	1,284	753,423	8
1,239,998	890,405	71,604	2,248,647	1,188	865,928	9
1,138,458	1,308,001	135,572	2,423,816	2,227	670,711	10
3,353,296	3,251,893	484,390	5,557,569	3,216	1,296,399	11
6,599,248	13,185,256	470,515	16,092,851	1,626	753,787	12
588,487	3,186,921	26,867	3,528,794	266	209,428	13
1,564,595	2,089,755	236,202	3,032,984	833	445,985	14
1,862,275	12,842,736	3,758,036	16,875,538	245	182,065	15
133,827	36,185	8,437	101,609	161	35,059	16
2,127,417	1,530,176	227,086	3,884,772	2,397	1,472,830	17
1,786,599	1,822,641	437,851	4,165,900	2,835	1,467,485	18
34,911,187	21,815,199	2,618,078	35,771,161	19,813	7,586,675	19
21,204,909	14,259,116	1,491,042	21,933,775	12,021	4,556,997	20
\$481,664,838	\$364,438,747	\$49,218,124	\$679,182,171	376,108	\$183,564,800	21

ber of persons employed (operatives, clerks, officers, etc.), and total amount paid in wages and salaries for 20 of the leading cities of Massachusetts with an aggregate for the State.

## BOSTON — Continued.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Miscellaneous expenses — Con.		Persons employed — Con.	
All sundries not elsewhere reported, . . . .	\$10,156,259	Piece hands, . . . .	12,919
Value of goods made and work done, . . . . .	\$210,936,616	Males above 16 years, . .	5,569
Principal products, . . . .	\$191,528,401	Females above 15 years, . .	7,334
All other products including work done, . . . . .	\$19,408,215	Children, . . . . .	16
Persons employed, . . . .	78,476	Officers, firm members, and clerks, . . . .	12,329
Operatives (skilled and unskilled), . . . . .	65,557	Males above 16 years, . . . .	10,596
Males above 16 years, . . . .	51,684	Females above 15 years, . . . .	1,733
Females above 15 years, . . . .	13,558	Wages paid, . . . . .	\$43,908,437
Children, . . . . .	315	Operatives (skilled and unskilled), . . . . .	\$38,217,716
		Males above 16 years, . . . .	\$33,791,197
		Females above 15 years, . . . .	\$4,374,382
		Children, . . . . .	\$52,137

## BOSTON — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Wages paid — Con.		Salaries paid :	
Piece hands, . . . .	\$5,690,721	Officers, firm members, and	
Males above 16 years, .	\$3,473,687	clerks, . . . .	\$11,217,435
Females above 15 years, .	\$2,213,806	Males above 16 years, .	\$10,372,179
Children, . . . .	\$3,228	Females above 15 years, .	\$845,256

## BROCKTON.

Number of establishments, .	537	Value of goods made and work done — Con.	
Total amount of capital invested, .	\$7,772,452	All other products including work done, . . . .	\$626,100
Land, . . . .	\$366,175	Persons employed, . . . .	10,317
Buildings, . . . .	\$546,497	Operatives (skilled and unskilled), . . . .	5,112
Machinery, implements, and tools, . . . .	\$1,204,676	Males above 16 years, .	4,146
Raw materials, . . . .	\$1,105,545	Females above 15 years, .	891
Stock in process and finished products on hand, . .	\$1,016,498	Children, . . . .	75
Cash and credit capital, . .	\$3,533,061	Piece hands, . . . .	5,205
Value of hired property, . .	\$1,571,421	Males above 16 years, .	3,708
Value of stock used, . . .	\$11,211,411	Females above 15 years, .	1,486
Principal materials, . . .	\$10,014,612	Children, . . . .	11
Fuel, . . . .	\$53,112	Officers, firm members, and clerks, . . . .	875
Rent of power and heat, . .	\$21,798	Males above 16 years, . .	747
Mill supplies, . . . .	\$2,410	Females above 15 years, . .	123
All other materials, . . .	\$1,119,479	Wages paid, . . . .	\$5,746,324
Miscellaneous expenses, . .	\$1,136,445	Operatives (skilled and unskilled), . . . .	\$2,992,808
Rent for tenancy, . . . .	\$116,290	Males above 16 years, . .	\$2,599,969
Taxes, . . . .	\$34,450	Females above 15 years, .	\$379,646
Insurance, . . . .	\$43,525	Children, . . . .	\$13,193
Repairs (ordinary) of buildings and machinery, . .	\$80,366	Piece hands, . . . .	\$2,753,516
Amount paid to contractors, .	\$14,912	Males above 16 years, . .	\$2,152,611
Interest paid on cash used in the business, . . . .	\$75,309	Females above 15 years, .	\$599,233
All sundries not elsewhere reported, . . . .	\$771,593	Children, . . . .	\$1,672
Value of goods made and work done, . . . .	\$21,070,099	Salaries paid :	
Principal products, . . .	\$20,443,999	Officers, firm members, and clerks, . . . .	\$853,841
		Males above 16 years, . .	\$784,703
		Females above 15 years, .	\$69,133

## CAMBRIDGE.

Number of establishments, . .	1,232	Total amount of capital invested, .	
Total amount of capital invested, .	\$20,331,585	— Con.	
Land, . . . .	\$1,614,494	Raw materials, . . . .	\$2,171,058
Buildings, . . . .	\$2,346,951	Stock in process and finished products on hand, . .	\$4,797,973
Machinery, implements, and tools, . . . .	\$3,310,972	Cash and credit capital, . .	\$6,090,137

## CAMBRIDGE — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Value of hired property, . . .	\$3,936,373	Persons employed — Con.	
Value of stock used, . . .	\$20,263,534	Operatives (skilled and un- skilled) — Con.	
Principal materials, . . .	\$19,117,961	Females above 15 years, . . .	1,299
Fuel, . . . . .	\$367,104	Children, . . . . .	32
Rent of power and heat, . . .	\$22,855	Piece hands, . . . . .	2,560
Mill supplies, . . . . .	\$14,702	Males above 16 years, . . .	1,116
All other materials, . . . . .	\$745,912	Females above 15 years, . . .	1,442
Miscellaneous expenses, . . .	\$2,370,252	Children, . . . . .	2
Rent for tenancy, . . . . .	\$310,598	Officers, firm members, and clerks, . . .	1,677
Taxes, . . . . .	\$404,041	Males above 16 years, . . .	1,267
Insurance, . . . . .	\$121,383	Females above 15 years, . . .	410
Repairs (ordinary) of build- ings and machinery, . . .	\$117,968	Wages paid, . . . . .	\$6,497,963
Amount paid to contractors, . .	\$62,295	Operatives (skilled and un- skilled), . . . . .	\$5,412,974
Interest paid on cash used in the business, . . . . .	\$200,996	Males above 16 years, . . .	\$5,034,305
All sundries not elsewhere reported, . . . . .	\$1,152,971	Females above 15 years, . . .	\$375,004
Value of goods made and work done, . . . . .	\$35,975,089	Children, . . . . .	\$3,665
Principal products, . . . . .	\$34,293,521	Piece hands, . . . . .	\$1,084,989
All other products including work done, . . . . .	\$1,675,568	Males above 16 years, . . .	\$690,644
Persons employed, . . . . .	12,581	Females above 15 years, . . .	\$393,805
Operatives (skilled and un- skilled), . . . . .	10,021	Children, . . . . .	\$540
Males above 16 years, . . . . .	8,690	Salaries paid .	
		Officers, firm members, and clerks, . . . . .	\$1,261,850
		Males above 16 years, . . .	\$1,113,157
		Females above 15 years, . . .	\$148,693

## CHELSEA.

Number of establishments, . . .	347	Miscellaneous expenses, . . .	\$547,110
Total amount of capital invested, . . .	\$7,028,356	Rent paid for tenancy, . . .	\$83,035
Land, . . . . .	\$583,253	Taxes, . . . . .	\$53,919
Buildings, . . . . .	\$691,446	Insurance, . . . . .	\$36,834
Machinery, implements, and tools, . . . . .	\$1,570,182	Repairs (ordinary) of build- ings and machinery, . . .	\$74,980
Raw materials, . . . . .	\$934,028	Amount paid to contrac- tors, . . . . .	\$16,000
Stock in process and finished products on hand, . . .	\$1,366,540	Interest paid on cash used in the business, . . . . .	\$141,166
Cash and credit capital, . . .	\$1,882,907	All sundries not elsewhere reported, . . . . .	\$141,176
Value of hired property, . . .	\$1,048,968	Value of goods made and work done, . . . . .	\$8,158,207
Value of stock used, . . . . .	\$4,681,291	Principal products, . . . . .	\$7,227,246
Principal materials, . . . . .	\$4,044,919	All other products including work done, . . . . .	\$930,961
Fuel, . . . . .	\$90,657		
Rent of power and heat, . . .	\$3,411		
Mill supplies, . . . . .	\$37,697		
All other materials, . . . . .	\$504,607		



## CHELSEA — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Persons employed, . . . .	2,977	Wages paid, . . . . .	\$1,384,945
Operatives (skilled and un- skilled), . . . . .	2,258	Operatives (skilled and un- skilled), . . . . .	\$1,116,752
Males above 16 years, . .	1,763	Males above 16 years, . .	\$985,527
Females above 15 years, .	483	Females above 15 years, .	\$129,309
Children, . . . . .	12	Children, . . . . .	\$1,916
Piece hands, . . . . .	719	Piece hands, . . . . .	\$268,193
Males above 16 years, . .	319	Males above 16 years, . .	\$145,202
Females above 15 years, .	396	Females above 15 years, .	\$121,991
Children, . . . . .	4	Children, . . . . .	\$1,000
Officers, firm members, and clerks, . . . . .	493	Salaries paid : Officers, firm members, and clerks, . . . . .	\$499,057
Males above 16 years, . .	403	Males above 16 years, . .	\$443,073
Females above 15 years, .	90	Females above 15 years, .	\$55,984

## FALL RIVER.

Number of establishments, .	397	Value of goods made and work done, . . . . .	\$82,519,281
Total amount of capital invested, \$37,199,470		Principal products, . . . .	\$31,801,769
Land, . . . . .	\$2,454,242	All other products including work done, . . . . .	\$717,512
Buildings, . . . . .	\$7,584,841		
Machinery, implements, and tools, . . . . .	\$17,188,915	Persons employed, . . . .	22,987
Raw materials, . . . . .	\$2,856,827	Operatives (skilled and un- skilled), . . . . .	22,406
Stock in process and finished products on hand, . . .	\$3,131,548	Males above 16 years, . .	12,018
Cash and credit capital, . .	\$3,983,597	Females above 15 years, .	9,171
Value of hired property, . .	\$1,156,755	Children, . . . . .	1,217
Value of stock used, . . . .	\$17,685,671	Piece hands, . . . . .	581
Principal materials, . . . .	\$16,228,888	Males above 16 years, . .	183
Fuel, . . . . .	\$682,099	Females above 15 years, .	389
Rent of power and heat, . .	\$3,245	Children, . . . . .	9
Mill supplies, . . . . .	\$404,252		
All other materials, . . . .	\$367,187	Officers, firm members, and clerks, . . . . .	555
Miscellaneous expenses, . .	\$2,063,945	Males above 16 years, . .	486
Rent for tenancy, . . . . .	\$88,231	Females above 15 years, . .	69
Taxes, . . . . .	\$476,325		
Insurance, . . . . .	\$106,638	Wages paid, . . . . .	\$8,213,045
Repairs (ordinary) of build- ings and machinery, . . .	\$482,477	Operatives (skilled and un- skilled), . . . . .	\$8,062,866
Interest paid on cash used in the business, . . . . .	\$359,502	Males above 16 years, . .	\$5,026,810
All sundries not elsewhere reported, . . . . .	\$550,772	Females above 15 years, .	\$2,833,285
		Children, . . . . .	\$202,771

## FALL RIVER — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Wages paid — Con.		Salaries paid :	
Piece hands, . . . . .	\$150,179	Officers, firm members, and	
Males above 16 years, . .	\$56,872	clerks, . . . . .	\$562,677
Females above 15 years, . .	\$92,239	Males above 16 years, . .	\$534,076
Children, . . . . .	\$1,068	Females above 15 years, . .	\$28,601

## FITCHBURG.

Number of establishments, . .	323	Value of goods made and work done, . . . . .	\$11,225,036
Total amount of capital invested, .	\$7,563,522	Principal products, . . .	\$10,145,534
Land, . . . . .	\$582,467	All other products including work done, . . . . .	\$1,079,502
Buildings, . . . . .	\$959,272	Persons employed, . . . .	5,079
Machinery, implements, and tools, . . . . .	\$2,168,058	Operatives (skilled and unskilled), . . . . .	4,691
Raw materials, . . . . .	\$938,925	Males above 16 years, . .	3,310
Stock in process and finished products on hand, . . .	\$1,388,126	Females above 15 years, . .	1,177
Cash and credit capital, . . .	\$1,526,674	Children, . . . . .	204
Value of hired property, . . .	\$683,045	Piece hands, . . . . .	388
Value of stock used, . . . .	\$6,414,105	Males above 16 years, . .	298
Principal materials, . . . .	\$5,950,947	Females above 15 years, . .	90
Fuel, . . . . .	\$183,151	Officers, firm members, and clerks, . . . . .	418
Rent of power and heat, . . .	\$6,745	Males above 16 years, . . .	356
Mill supplies, . . . . .	\$77,506	Females above 15 years, . .	62
All other materials, . . . .	\$195,756	Wages paid, . . . . .	\$2,396,811
Miscellaneous expenses, . . .	\$746,602	Operatives (skilled and unskilled), . . . . .	\$2,156,239
Rent for tenancy, . . . . .	\$57,993	Males above 16 years, . . .	\$1,760,817
Taxes, . . . . .	\$63,501	Females above 15 years, . .	\$359,702
Insurance, . . . . .	\$29,442	Children, . . . . .	\$35,720
Repairs (ordinary) of buildings and machinery, . .	\$146,967	Piece hands, . . . . .	\$240,572
Amount paid to contractors, . .	\$16,910	Males above 16 years, . . .	\$206,817
Interest paid on cash used in the business, . . . . .	\$148,961	Females above 15 years, . .	\$33,755
All sundries not elsewhere reported, . . . . .	\$282,828	Salaries paid :	
		Officers, firm members, and clerks, . . . . .	\$382,733
		Males above 16 years, . . .	\$354,970
		Females above 15 years, . .	\$27,763

## GLOUCESTER.

Number of establishments, . . .	206	Total amount of capital invested — Con.	
Total amount of capital invested, .	\$2,763,284	Machinery, implements, and tools, . . . . .	\$455,485
Land, . . . . .	\$180,773	Raw materials, . . . . .	\$460,827
Buildings, . . . . .	\$290,909		

## GLOUCESTER — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Total amount of capital invested — Con.		Persons employed, . . . .	1,563
Stock in process and finished products on hand, . . .	\$300,965	Operatives (skilled and un- skilled), . . . .	1,089
Cash and credit capital, . .	\$1,074,325	Males above 16 years, . .	867
Value of hired property, . .	\$449,650	Females above 15 years, . .	222
Value of stock used, . . .	\$3,220,601	Piece hands, . . . .	474
Principal materials, . . .	\$2,980,530	Males above 16 years, . .	292
Fuel, . . . .	\$47,888	Females above 15 years, . .	180
Rent of power and heat, . .	\$1,455	Children, . . . .	2
Mill supplies, . . . .	\$4,134	Officers, firm members, and clerks, . . . .	156
All other materials, . . .	\$186,594	Males above 16 years, . .	133
Miscellaneous expenses, . .	\$156,668	Females above 15 years, . .	18
Rent for tenancy, . . . .	\$33,769	Wages paid, . . . .	\$751,581
Taxes, . . . .	\$17,463	Operatives (skilled and un- skilled), . . . .	\$566,288
Insurance, . . . .	\$16,676	Males above 16 years, . .	\$513,076
Repairs (ordinary) of build- ings and machinery, . . .	\$22,657	Females above 15 years, . .	\$53,212
Amount paid to contractors, .	\$100	Piece hands, . . . .	\$185,293
Interest paid on cash used in the business, . . . .	\$22,403	Males above 16 years, . .	\$127,484
All sundries not elsewhere reported, . . . .	\$38,600	Females above 15 years, . .	\$57,289
Value of goods made and work done, . . . .	\$4,851,405	Children, . . . .	\$520
Principal products, . . . .	\$4,570,031	Salaries paid:	
All other products including work done, . . . .	\$281,374	Officers, firm members, and clerks, . . . .	\$112,965
		Males above 16 years, . .	\$106,685
		Females above 15 years, . .	\$6,280

## HAVERHILL.

Number of establishments, . .	734	Value of stock used — Con.	
Total amount of capital invested,	\$8,084,272	Rent of power and heat, . .	\$55,141
Land, . . . .	\$149,750	Mill supplies, . . . .	\$2,653
Buildings, . . . .	\$188,584	All other materials, . . .	\$804,542
Machinery, implements, and tools, . . . .	\$1,261,060	Miscellaneous expenses, . .	\$1,777,142
Raw materials, . . . .	\$1,413,153	Rent for tenancy, . . . .	\$233,078
Stock in process and finished products on hand, . . .	\$1,555,810	Taxes, . . . .	\$36,614
Cash and credit capital, . .	\$3,515,910	Insurance, . . . .	\$57,775
Value of hired property, . .	\$3,220,880	Repairs (ordinary) of build- ings and machinery, . . .	\$39,972
Value of stock used, . . .	\$13,635,969	Amount paid to contractors,	\$1,063,885
Principal materials, . . .	\$12,720,819	Interest paid on cash used in the business, . . . .	\$51,466
Fuel, . . . .	\$52,814	All sundries not elsewhere reported, . . . .	\$294,352

## HAVERHILL — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Value of goods made and work done, . . . . .	\$25,394,530	Officers, firm members, and clerks — Con.	
Principal products, . . . .	\$24,324,195	Males above 16 years, . . . .	852
All other products including work done, . . . . .	\$1,070,335	Females above 15 years, . . . .	211
Persons employed, . . . .	14,138	Wages paid, . . . . .	\$6,097,574
Operatives (skilled and unskilled), . . . . .	4,457	Operatives (skilled and unskilled), . . . . .	\$2,418,798
Males above 16 years, . . . .	3,554	Males above 16 years, . . . .	\$2,154,457
Females above 15 years, . . . .	888	Females above 15 years, . . . .	\$260,296
Children, . . . . .	15	Children, . . . . .	\$4,045
Piece hands, . . . . .	9,681	Piece hands, . . . . .	\$3,678,776
Males above 16 years, . . . .	6,731	Males above 16 years, . . . .	\$2,509,528
Females above 15 years, . . . .	2,740	Females above 15 years, . . . .	\$1,024,248
Children, . . . . .	210	Children, . . . . .	\$145,000
Officers, firm members, and clerks, . . . . .	1,063	Salaries paid :	
		Officers, firm members, and clerks, . . . . .	\$835,056
		Males above 16 years, . . . .	\$735,340
		Females above 15 years, . . . .	\$99,716

## HOLYOKE.

Number of establishments, . . . .	493	Miscellaneous expenses — Con.	
Total amount of capital invested, . . . . .	\$24,411,939	Amount paid to contractors, . . . .	\$81,250
Land, . . . . .	\$1,997,659	Interest paid on cash used in the business, . . . . .	\$354,532
Buildings, . . . . .	\$4,200,975	All sundries not elsewhere reported, . . . . .	\$450,304
Machinery, implements, and tools, . . . . .	\$5,782,337	Value of goods made and work done, . . . . .	\$23,060,315
Raw materials, . . . . .	\$2,897,481	Principal products, . . . . .	\$24,415,935
Stock in process and finished products on hand, . . . . .	\$3,171,279	All other products including work done, . . . . .	\$1,645,280
Cash and credit capital, . . . .	\$6,362,208	Persons employed, . . . . .	12,305
Value of hired property, . . . .	\$1,445,172	Operatives (skilled and unskilled), . . . . .	10,690
Value of stock used, . . . . .	\$13,574,788	Males above 16 years, . . . .	6,659
Principal materials, . . . .	\$12,111,709	Females above 15 years, . . . .	3,588
Fuel, . . . . .	\$346,467	Children, . . . . .	443
Rent of power and heat, . . . .	\$109,887	Piece hands, . . . . .	1,615
Mill supplies, . . . . .	\$147,766	Males above 16 years, . . . .	181
All other materials, . . . .	\$858,959	Females above 15 years, . . . .	1,425
Miscellaneous expenses, . . . .	\$1,683,226	Children, . . . . .	9
Rent for tenancy, . . . .	\$133,661	Officers, firm members, and clerks, . . . .	834
Taxes, . . . . .	\$177,701	Males above 16 years, . . . .	741
Insurance, . . . . .	\$102,445	Females above 15 years, . . . .	93
Repairs (ordinary) of buildings and machinery, . . . .	\$378,283		

## HOLYOKE — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Wages paid, . . . . .	\$5,324,933	Wages paid — Con.	
Operatives (skilled and un-		Piece hands — Con.	
skilled), . . . . .	\$4,708,623	Females above 15 years, .	\$486,936
Males above 16 years, .	\$3,573,916	Children, . . . . .	\$1,600
Females above 15 years, .	\$1,052,916	Salaries paid :	
Children, . . . . .	\$81,791	Officers, firm members, and	
Piece hands, . . . . .	\$616,312	clerks, . . . . .	\$872,988
Males above 16 years, .	\$127,776	Males above 16 years, .	\$832,539
		Females above 15 years, .	\$40,449

## LAWRENCE.

Number of establishments, . .	583	Value of goods made and work done — Con.	
Total amount of capital invested, .	\$29,626,806	Principal products, . . . .	\$21,893,484
Land, . . . . .	\$2,166,464	All other products including	
Buildings, . . . . .	\$4,425,586	work done, . . . . .	\$4,657,241
Machinery, implements, and tools, . . . . .	\$7,416,393	Persons employed, . . . . .	15,568
Raw materials, . . . . .	\$4,092,776	Operatives (skilled and un-	
Stock in process and finished products on hand, . . .	\$5,553,326	skilled), . . . . .	14,480
Cash and credit capital, . . .	\$5,972,261	Males above 16 years, .	8,292
		Females above 15 years, .	5,717
Value of hired property, . . .	\$1,508,786	Children, . . . . .	471
Value of stock used, . . . . .	\$15,145,851	Piece hands, . . . . .	1,088
Principal materials, . . . . .	\$13,507,998	Males above 16 years, .	349
Fuel, . . . . .	\$489,388	Females above 15 years, .	738
Rent of power and heat, . . .	\$60,402	Children, . . . . .	1
Mill supplies, . . . . .	\$155,313	Officers, firm members, and clerks, .	708
All other materials, . . . . .	\$932,750	Males above 16 years, . . .	532
		Females above 15 years, . .	176
Miscellaneous expenses, . . .	\$1,958,366	Wages paid, . . . . .	\$6,092,054
Rent for tenancy, . . . . .	\$121,575	Operatives (skilled and un-	
Taxes, . . . . .	\$245,419	skilled), . . . . .	\$5,666,177
Insurance, . . . . .	\$86,074	Males above 16 years, . . .	\$3,854,402
Repairs (ordinary) of build-		Females above 15 years, . .	\$1,718,045
ings and machinery, . . . . .	\$448,875	Children, . . . . .	\$93,730
Amount paid to contractors, .	\$14,656	Piece hands, . . . . .	\$425,877
Interest paid on cash used in the business, . . . . .	\$511,525	Males above 16 years, . . .	\$168,524
All sundries not elsewhere reported, . . . . .	\$530,242	Females above 15 years, . .	\$257,153
		Children, . . . . .	\$200
Value of goods made and work done, . . . . .	\$26,550,725	Salaries paid :	
		Officers, firm members, and clerks, . . . . .	\$631,329
		Males above 16 years, . . .	\$552,003
		Females above 15 years, . .	\$79,326



## LOWELL.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Number of establishments, . .	853	Value of goods made and work done — Con.	
Total amount of capital invested, . . . . .	\$41,911,708	Principal products, . . . .	\$36,979,948
Land, . . . . .	\$4,370,589	All other products including work done, . . . . .	\$5,470,561
Buildings, . . . . .	\$6,263,721	Persons employed, . . . .	27,778
Machinery, implements, and tools, . . . . .	\$10,203,107	Operatives (skilled and unskilled), . . . . .	24,093
Raw materials, . . . . .	\$6,402,524	Males above 16 years, . .	13,378
Stock in process and finished products on hand, . . . .	\$5,519,603	Females above 15 years, . .	10,136
Cash and credit capital, . . . .	\$9,152,164	Children, . . . . .	579
Value of hired property, . . . .	\$3,264,712	Piece hands, . . . . .	3,685
Value of stock used, . . . . .	\$22,996,138	Males above 16 years, . .	706
Principal materials, . . . . .	\$19,242,175	Females above 15 years, . .	2,946
Fuel, . . . . .	\$538,869	Children, . . . . .	33
Rent of power and heat, . . . .	\$46,756	Officers, firm members, and clerks, . . . . .	1,877
Mill supplies, . . . . .	\$638,783	Males above 16 years, . .	1,012
All other materials, . . . . .	\$2,529,555	Females above 15 years, . .	365
Miscellaneous expenses, . . . .	\$4,150,844	Wages paid, . . . . .	\$10,044,408
Rent for tenancy, . . . . .	\$256,266	Operatives (skilled and unskilled), . . . . .	\$8,888,822
Taxes, . . . . .	\$400,346	Males above 16 years, . .	\$6,031,155
Insurance, . . . . .	\$131,677	Females above 15 years, . .	\$2,762,903
Repairs (ordinary) of buildings and machinery, . . . .	\$775,508	Children, . . . . .	\$94,764
Amount paid to contractors, . . . .	\$300	Piece hands, . . . . .	\$1,155,586
Interest paid on cash used in the business, . . . . .	\$490,214	Males above 16 years, . .	\$310,340
All sundries not elsewhere reported, . . . . .	\$2,096,533	Females above 15 years, . .	\$840,967
Value of goods made and work done, . . . . .	\$42,450,509	Children, . . . . .	\$4,279
		Salaries paid :	
		Officers, firm members, and clerks, . . . . .	\$1,198,984
		Males above 16 years, . .	\$1,048,199
		Females above 15 years, . .	\$150,785

## LYNN.

Number of establishments, . .	1,369	Value of hired property, . .	\$5,324,330
Total amount of capital invested, . . . . .	\$17,919,025	Value of stock used, . . . .	\$23,039,987
Land, . . . . .	\$492,222	Principal materials, . . . .	\$20,617,089
Buildings, . . . . .	\$915,453	Fuel, . . . . .	\$142,220
Machinery, implements, and tools, . . . . .	\$3,071,637	Rent of power and heat, . .	\$138,227
Raw materials, . . . . .	\$2,295,053	Mill supplies, . . . . .	\$54,625
Stock in process and finished products on hand, . . . .	\$3,203,200	All other materials, . . . .	\$2,087,826
Cash and credit capital, . . . .	\$7,941,450	Miscellaneous expenses, . .	\$2,045,531
		Rent for tenancy, . . . . .	\$426,713

## LYNN — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Miscellaneous expenses — Con.		Persons employed — Con.	
Taxes, . . . . .	\$78,604	Piece hands — Con.	
Insurance, . . . . .	\$105,258	Females above 15 years, .	4,403
Repairs (ordinary) of build- ings and machinery, . .	\$116,381	Children, . . . . .	13
Amount paid to contractors,	\$430,874	Officers, firm members, and clerks,	2,134
Interest paid on cash used in the business, . . . .	\$217,518	Males above 16 years, . .	1,690
All sundries not elsewhere reported, . . . . .	\$670,183	Females above 15 years, .	444
Value of goods made and work done, . . . . .	\$44,223,845	Wages paid, . . . . .	\$11,033,166
Principal products, . . . .	\$38,506,825	Operatives (skilled and un- skilled), . . . . .	\$5,382,813
All other products including work done, . . . . .	\$5,717,020	Males above 16 years, .	\$4,892,084
Persons employed, . . . .	20,318	Females above 15 years, .	\$477,161
Operatives (skilled and un- skilled), . . . . .	9,003	Children, . . . . .	\$13,568
Males above 16 years, .	7,692	Piece hands, . . . . .	\$5,650,353
Females above 15 years, .	1,239	Males above 16 years, .	\$3,939,257
Children, . . . . .	72	Females above 15 years, .	\$1,706,496
Piece hands, . . . . .	11,315	Children, . . . . .	\$4,600
Males above 16 years, .	6,899	Salaries paid :	
		Officers, firm members, and clerks, . . . . .	\$1,744,008
		Males above 16 years, .	\$1,536,593
		Females above 15 years, .	\$207,415

## MALDEN.

Number of establishments, . .	295	Miscellaneous expenses — Con.	
Total amount of capital invested,	\$7,600,124	Repairs (ordinary) of build- ings and machinery, . .	\$40,342
Land, . . . . .	\$310,599	Interest paid on cash used in the business, . . . . .	\$53,158
Buildings, . . . . .	\$744,912	All sundries not elsewhere reported, . . . . .	\$269,655
Machinery, implements, and tools, . . . . .	\$955,643	Value of goods made and work done, . . . . .	\$9,592,501
Raw materials, . . . . .	\$1,109,530	Principal products, . . . .	\$8,523,273
Stock in process and finished products on hand, . . .	\$1,431,118	All other products including work done, . . . . .	\$1,067,228
Cash and credit capital, . .	\$3,048,322	Persons employed, . . . .	4,418
Value of hired property, . .	\$430,060	Operatives (skilled and un- skilled), . . . . .	2,686
Value of stock used, . . . .	\$5,901,817	Males above 16 years, .	2,202
Principal materials, . . . .	\$5,127,467	Females above 15 years, .	429
Fuel, . . . . .	\$81,616	Children, . . . . .	55
Rent of power and heat, . .	\$1,713	Piece hands, . . . . .	1,732
Mill supplies, . . . . .	\$9,725	Males above 16 years, .	506
All other materials, . . . .	\$681,296	Females above 15 years, .	1,226
Miscellaneous expenses, . .	\$498,174		
Rent for tenancy, . . . .	\$31,456		
Taxes, . . . . .	\$64,172		
Insurance, . . . . .	\$39,391		



## MALDEN — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Officers, firm members, and clerks,	351	Wages paid — Con.	
Males above 16 years, . . .	298	Piece hands, . . . . .	\$768,579
Females above 15 years, . . .	53	Males above 16 years, . . .	\$250,926
Wages paid, . . . . .	\$2,115,420	Females above 15 years, . . .	\$517,653
Operatives (skilled and un-		Salaries paid :	
skilled), . . . . .	\$1,346,841	Officers, firm members, and	
Males above 16 years, . . .	\$1,225,826	clerks, . . . . .	\$268,757
Females above 15 years, . . .	\$105,434	Males above 16 years, . . .	\$244,732
Children, . . . . .	\$15,581	Females above 15 years, . . .	\$24,025

## NEW BEDFORD.

Number of establishments, . . .	413	Value of goods made and work done — Con.	
Total amount of capital invested,	\$20,132,633	Principal products, . . . . .	\$16,541,827
Land, . . . . .	\$908,430	All other products including	
Buildings, . . . . .	\$3,640,285	work done, . . . . .	\$483,952
Machinery, implements, and		Persons employed, . . . . .	10,812
tools, . . . . .	\$7,588,814	Operatives (skilled and un-	
Raw materials, . . . . .	\$2,678,402	skilled), . . . . .	10,154
Stock in process and finished		Males above 16 years, . . .	6,298
products on hand, . . . . .	\$2,542,660	Females above 15 years, . . .	3,480
Cash and credit capital, . . .	\$2,774,092	Children, . . . . .	376
Value of hired property, . . .	\$946,280	Piece hands, . . . . .	658
Value of stock used, . . . . .	\$8,581,373	Males above 16 years, . . .	463
Principal materials, . . . . .	\$7,872,433	Females above 15 years, . . .	179
Fuel, . . . . .	\$254,638	Children, . . . . .	11
Rent of power and heat, . . .	\$17,429	Officers, firm members, and clerks,	610
Mill supplies, . . . . .	\$302,692	Males above 16 years, . . .	542
All other materials, . . . . .	\$134,181	Females above 15 years, . . .	68
Miscellaneous expenses, . . .	\$980,306	Wages paid, . . . . .	\$4,378,105
Rent for tenancy, . . . . .	\$72,133	Operatives (skilled and un-	
Taxes, . . . . .	\$192,028	skilled), . . . . .	\$4,045,695
Insurance, . . . . .	\$60,221	Males above 16 years, . . .	\$2,944,536
Repairs (ordinary) of build-		Females above 15 years, . . .	\$1,046,063
ings and machinery, . . . . .	\$80,900	Children, . . . . .	\$55,096
Amount paid to contractors, . .	\$100	Piece hands, . . . . .	\$332,410
Interest paid on cash used in		Males above 16 years, . . .	\$266,288
the business, . . . . .	\$168,724	Females above 15 years, . . .	\$64,722
All sundries not elsewhere		Children, . . . . .	\$1,400
reported, . . . . .	\$406,200	Salaries paid :	
Value of goods made and work		Officers, firm members, and	
done, . . . . .	\$17,025,779	clerks, . . . . .	\$606,911
		Males above 16 years, . . .	\$576,297
		Females above 15 years, . . .	\$30,614

## NEWTON.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Number of establishments, . .	193	Value of goods made and work done — Con.	
Total amount of capital invested, . . . . .	\$4,393,807	Principal products, . . . .	\$2,888,824
Land, . . . . .	\$234,125	All other products including work done, . . . . .	\$1,446,940
Buildings, . . . . .	\$543,539		
Machinery, implements, and tools, . . . . .	\$1,037,612	Persons employed, . . . .	2,390
Raw materials, . . . . .	\$470,560	Operatives (skilled and unskilled), . . . . .	2,264
Stock in process and finished products on hand, . . . .	\$952,240	Males above 16 years, . . .	1,659
Cash and credit capital, . . . .	\$1,105,731	Females above 15 years, . .	544
		Children, . . . . .	61
Value of hired property, . . . .	\$314,075	Piece hands, . . . . .	126
		Males above 16 years, . . .	27
Value of stock used, . . . . .	\$2,175,249	Females above 15 years, . .	99
Principal materials, . . . . .	\$1,946,829	Officers, firm members, and clerks, . . . . .	234
Fuel, . . . . .	\$58,137	Males above 16 years, . . .	139
Rent of power and heat, . . . .	\$150	Females above 15 years, . .	45
Mill supplies, . . . . .	\$13,063		
All other materials, . . . . .	\$157,065	Wages paid, . . . . .	\$1,163,910
Miscellaneous expenses, . . . .	\$243,663	Operatives (skilled and unskilled), . . . . .	\$1,121,686
Rent for tenancy, . . . . .	\$25,173	Males above 16 years, . . .	\$959,751
Taxes, . . . . .	\$24,724	Females above 15 years, . .	\$153,932
Insurance, . . . . .	\$21,271	Children, . . . . .	\$8,003
Repairs (ordinary) of buildings and machinery, . . .	\$56,423	Piece hands, . . . . .	\$47,224
Interest paid on cash used in the business, . . . . .	\$62,771	Males above 16 years, . . .	\$19,500
All sundries not elsewhere reported, . . . . .	\$53,301	Females above 15 years, . .	\$27,724
Value of goods made and work done, . . . . .	\$4,335,764	Salaries paid :	
		Officers, firm members, and clerks, . . . . .	\$239,365
		Males above 16 years, . . .	\$213,906
		Females above 15 years, . .	\$25,459

## SALEM.

Number of establishments, . . . .	513	Value of stock used, . . . . .	\$4,738,643
Total amount of capital invested, . . . . .	\$6,250,164	Principal materials, . . . .	\$4,465,450
Land, . . . . .	\$252,087	Fuel, . . . . .	\$85,937
Buildings, . . . . .	\$798,953	Rent of power and heat, . . .	\$34,585
Machinery, implements, and tools, . . . . .	\$2,056,464	Mill supplies, . . . . .	\$69,660
Raw materials, . . . . .	\$878,493	All other materials, . . . .	\$83,011
Stock in process and finished products on hand, . . . .	\$747,770	Miscellaneous expenses, . . .	\$424,772
Cash and credit capital, . . . .	\$1,516,397	Rent for tenancy, . . . . .	\$72,929
		Taxes, . . . . .	\$52,942
Value of hired property, . . . .	\$752,613	Insurance, . . . . .	\$32,363
		Repairs (ordinary) of buildings and machinery, . . .	\$92,031

## SALEM — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Miscellaneous expenses — Con.		Officers, firm members, and clerks,	671
Amount paid to contractors, .	\$11,940	Males above 16 years, . .	575
Interest paid on cash used in the business, . . . .	\$74,916	Females above 15 years, . .	96
All sundries not elsewhere reported, . . . .	\$87,651		
Value of goods made and work done, . . . .	\$8,522,751	Wages paid, . . . .	\$1,973,966
Principal products, . . . .	\$8,272,398	Operatives (skilled and un- skilled), . . . .	\$1,446,108
All other products including work done, . . . .	\$250,353	Males above 16 years, . .	\$1,210,442
Persons employed, . . . .	5,127	Females above 15 years, . .	\$233,397
Operatives (skilled and un- skilled), . . . .	3,519	Children, . . . .	\$2,269
Males above 16 years, . .	2,578	Piece hands, . . . .	\$527,858
Females above 15 years, . .	923	Males above 16 years, . .	\$304,679
Children, . . . .	18	Females above 15 years, . .	\$212,079
Piece hands, . . . .	1,608	Children, . . . .	\$11,100
Males above 16 years, . .	700		
Females above 15 years, . .	812	Salaries paid :	
Children, . . . .	96	Officers, firm members, and clerks, . . . .	\$472,110
		Males above 16 years, . .	\$436,065
		Females above 15 years, . .	\$36,045

## SOMERVILLE.

Number of establishments, . .	404	Miscellaneous expenses — Con.	
Total amount of capital invested,	\$3,883,859	Repairs (ordinary) of build- ings and machinery, . .	\$37,047
Land, . . . .	\$598,040	Amount paid to contractors, .	\$72
Buildings, . . . .	\$683,575	Interest paid on cash used in the business, . . . .	\$26,164
Machinery, implements, and tools, . . . .	\$601,909	All sundries not elsewhere reported, . . . .	\$103,302
Raw materials, . . . .	\$389,729		
Stock in process and finished products on hand, . .	\$772,555	Value of goods made and work done, . . . .	\$7,307,522
Cash and credit capital, . .	\$838,051	Principal products, . . . .	\$5,202,185
Value of hired property, . .	\$592,590	All other products including work done, . . . .	\$2,105,337
Value of stock used, . . . .	\$4,420,128	Persons employed, . . . .	2,789
Principal materials, . . . .	\$4,218,248	Operatives (skilled and un- skilled), . . . .	2,559
Fuel, . . . .	\$80,947	Males above 16 years, . .	2,233
Rent of power and heat, . .	\$785	Females above 15 years, . .	320
Mill supplies, . . . .	\$4,275	Children, . . . .	6
All other materials, . . . .	\$115,873	Piece hands, . . . .	230
Miscellaneous expenses, . .	\$439,673	Males above 16 years, . .	127
Rent for tenancy, . . . .	\$54,584	Females above 15 years, . .	98
Taxes, . . . .	\$194,154	Children, . . . .	5
Insurance, . . . .	\$24,350		

## SOMERVILLE — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Officers, firm members, and clerks, . . . . .	496	Wages paid — Con.	
Males above 16 years, . . . . .	405	Piece hands, . . . . .	\$93,655
Females above 15 years, . . . . .	91	Males above 16 years, . . . . .	\$70,310
Wages paid, . . . . .	\$1,357,037	Females above 15 years, . . . . .	\$22,868
Operatives (skilled and un-		Children, . . . . .	\$477
skilled), . . . . .	\$1,263,382	Salaries paid:	
Males above 16 years, . . . . .	\$1,180,236	Officers, firm members, and	
Females above 15 years, . . . . .	\$81,897	clerks, . . . . .	\$426,942
Children, . . . . .	\$1,249	Males above 16 years, . . . . .	\$382,111
		Females above 15 years, . . . . .	\$41,831

## SPRINGFIELD.

Number of establishments, . . . . .	692	Value of goods made and work done — Con.	
Total amount of capital invested, . . . . .	\$13,199,283	Principal products, . . . . .	\$16,241,159
Land, . . . . .	\$1,266,006	All other products including work done, . . . . .	\$799,533
Buildings, . . . . .	\$2,078,698	Persons employed, . . . . .	9,159
Machinery, implements, and tools, . . . . .	\$4,055,647	Operatives (skilled and un-	
Raw materials, . . . . .	\$1,308,956	skilled), . . . . .	7,399
Stock in process and finished products on hand, . . . . .	\$1,760,031	Males above 16 years, . . . . .	6,073
Cash and credit capital, . . . . .	\$2,729,945	Females above 15 years, . . . . .	1,256
Value of hired property, . . . . .	\$3,019,598	Children, . . . . .	70
Value of stock used, . . . . .	\$7,817,534	Piece hands, . . . . .	1,760
Principal materials, . . . . .	\$7,106,078	Males above 16 years, . . . . .	871
Fuel, . . . . .	\$153,470	Females above 15 years, . . . . .	882
Rent of power and heat, . . . . .	\$34,437	Children, . . . . .	7
Mill supplies, . . . . .	\$87,817	Officers, firm members, and clerks, . . . . .	1,091
All other materials, . . . . .	\$436,232	Males above 16 years, . . . . .	871
Miscellaneous expenses, . . . . .	\$875,334	Females above 15 years, . . . . .	220
Rent for tenancy, . . . . .	\$226,271	Wages paid, . . . . .	\$4,843,636
Taxes, . . . . .	\$131,225	Operatives (skilled and un-	
Insurance, . . . . .	\$48,040	skilled), . . . . .	\$4,024,439
Repairs (ordinary) of build-		Males above 16 years, . . . . .	\$3,611,157
ings and machinery, . . . . .	\$70,621	Females above 15 years, . . . . .	\$399,277
Amount paid to contractors, . . . . .	\$16,750	Children, . . . . .	\$14,005
Interest paid on cash used in the business, . . . . .	\$86,629	Piece hands, . . . . .	\$819,197
All sundries not elsewhere reported, . . . . .	\$295,798	Males above 16 years, . . . . .	\$541,566
Value of goods made and work done, . . . . .	\$17,040,692	Females above 15 years, . . . . .	\$276,886
		Children, . . . . .	\$745
		Salaries paid:	
		Officers, firm members, and clerks, . . . . .	\$1,025,258
		Males above 16 years, . . . . .	\$910,328
		Females above 15 years, . . . . .	\$114,930

## TAUNTON.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Number of establishments, . . .	316	Value of goods made and work done — Con.	
Total amount of capital invested,	\$7,891,382	All other products including work done, . . . .	\$1,002,748
Land, . . . . .	\$484,680		
Buildings, . . . . .	\$1,163,105	Persons employed, . . . .	6,148
Machinery, implements, and tools, . . . . .	\$1,979,646	Operatives (skilled and unskilled), . . . . .	5,533
Raw materials, . . . . .	\$778,033	Males above 16 years, . .	4,171
Stock in process and finished products on hand, . . .	\$1,762,255	Females above 15 years, .	1,298
Cash and credit capital, . .	\$1,723,663	Children, . . . . .	64
Value of hired property, . .	\$656,880	Piece hands, . . . . .	615
Value of stock used, . . . .	\$4,799,287	Males above 16 years, . .	432
Principal materials, . . . .	\$4,145,292	Females above 15 years, .	183
Fuel, . . . . .	\$187,026	Officers, firm members, and clerks, . . . .	318
Rent of power and heat, . .	\$2,252	Males above 16 years, . .	293
Mill supplies, . . . . .	\$44,050	Females above 15 years, . .	25
All other materials, . . . .	\$420,667		
Miscellaneous expenses, . . .	\$707,629	Wages paid, . . . . .	\$2,837,194
Rent for tenancy, . . . . .	\$42,272	Operatives (skilled and unskilled), . . . . .	\$2,540,196
Taxes, . . . . .	\$67,357	Males above 16 years, . .	\$2,136,774
Insurance, . . . . .	\$33,525	Females above 15 years, .	\$392,683
Repairs (ordinary) of buildings and machinery, . . .	\$87,903	Children, . . . . .	\$10,739
Amount paid to contractors, .	\$4,700	Piece hands, . . . . .	\$296,998
Interest paid on cash used in the business, . . . . .	\$117,571	Males above 16 years, . .	\$242,736
All sundries not elsewhere reported, . . . . .	\$354,301	Females above 15 years, .	\$54,262
Value of goods made and work done, . . . . .	\$9,936,829	Salaries paid :	
Principal products, . . . .	\$8,934,081	Officers, firm members, and clerks, . . . . .	\$304,079
		Males above 16 years, . .	\$290,365
		Females above 15 years, .	\$13,714

## WORCESTER.

Number of establishments, . . .	996	Value of hired property, . . .	\$4,679,140
Total amount of capital invested,	\$25,230,620	Value of stock used, . . . .	\$21,208,904
Land, . . . . .	\$1,752,855	Principal materials, . . . .	\$17,693,834
Buildings, . . . . .	\$2,455,949	Fuel, . . . . .	\$738,764
Machinery, implements, and tools, . . . . .	\$5,836,413	Rent of power and heat, . .	\$62,962
Raw materials, . . . . .	\$3,765,212	Mill supplies, . . . . .	\$142,773
Stock in process and finished products on hand, . . . .	\$4,565,173	All other materials, . . . .	\$2,570,571
Cash and credit capital, . . .	\$6,855,018	Miscellaneous expenses, . . .	\$1,827,815
		Rent for tenancy, . . . . .	\$373,361



## WORCESTER — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Miscellaneous expenses — Con.		Persons employed — Con.	
Taxes, . . . . .	\$216,292	Piece hands — Con.	
Insurance, . . . . .	\$147,861	Females above 15 years, . . . . .	1,388
Repairs (ordinary) of build- ings and machinery, . . . . .	\$116,943	Children, . . . . .	60
Amount paid to contractors, . . . . .	\$1,441	Officers, firm members, and clerks, . . . . .	1,485
Interest paid on cash used in the business, . . . . .	\$174,420	Males above 16 years, . . . . .	1,355
All sundries not elsewhere reported, . . . . .	\$797,497	Females above 15 years, . . . . .	130
Value of goods made and work done, . . . . .	\$39,533,869	Wages paid, . . . . .	\$10,120,414
Principal products, . . . . .	\$36,127,933	Operatives (skilled and un- skilled), . . . . .	\$8,802,344
All other products including work done, . . . . .	\$3,405,936	Males above 16 years, . . . . .	\$8,126,010
Persons employed, . . . . .	20,244	Females above 15 years, . . . . .	\$649,785
Operatives (skilled and un- skilled), . . . . .	17,118	Children, . . . . .	\$26,549
Males above 16 years, . . . . .	14,705	Piece hands, . . . . .	\$1,318,070
Females above 15 years, . . . . .	2,258	Males above 16 years, . . . . .	\$940,634
Children, . . . . .	155	Females above 15 years, . . . . .	\$370,262
Piece hands, . . . . .	3,126	Children, . . . . .	\$7,174
Males above 16 years, . . . . .	1,678	Salaries paid:	
		Officers, firm members, and clerks, . . . . .	\$1,573,707
		Males above 16 years, . . . . .	\$1,508,511
		Females above 15 years, . . . . .	\$65,196

## THE STATE.

Number of establishments, . . . . .	26,923	Persons employed — Con.	
Total amount of capital invested, . . . . .	\$630,032,341	Operatives (day and piece hands) — Con.	
Land, . . . . .	\$40,926,844	Females above 15 years, . . . . .	132,923
Buildings, . . . . .	\$33,906,371	Children, . . . . .	8,877
Machinery, implements, and tools, . . . . .	\$149,948,630	Day hands, . . . . .	347,010
Live assets, . . . . .	\$355,250,496	Males above 16 years, . . . . .	250,871
Value of stock used, . . . . .	\$473,199,434	Females above 15 years, . . . . .	88,382
Miscellaneous expenses, . . . . .	\$63,083,782	Children, . . . . .	7,757
Value of goods made and work done, . . . . .	\$388,160,403	Piece hands, . . . . .	100,260
Persons employed:		Males above 16 years, . . . . .	54,599
Operatives (day and piece hands), . . . . .	447,270	Females above 15 years, . . . . .	44,541
Males above 16 years, . . . . .	305,470	Children, . . . . .	1,120
		Officers, firm members, and clerks, . . . . .	37,912
		Males above 16 years, . . . . .	32,475
		Females above 15 years, . . . . .	5,437
		Wages paid:	
		Operatives (day and piece hands), . . . . .	\$205,844,337
		Males above 16 years, . . . . .	\$163,682,816



## THE STATE — Concluded.

CLASSIFICATION.	Eleventh United States Census 1890	CLASSIFICATION.	Eleventh United States Census 1890
Wages paid — Con.		Average yearly earnings :	
Operatives (day and piece hands) — Con.		Operatives (day and piece hands), . . . .	\$460.22
Females above 15 years, .	\$40,546,206	Males above 16 years, .	\$535.84
Children, . . . .	\$1,615,315	Females above 15 years, .	\$305.04
Day hands, . . . .	\$163,259,517	Children, . . . .	\$181.97
Males above 16 years, .	\$135,516,487	Day hands, . . . .	\$470.47
Females above 15 years, .	\$26,419,831	Males above 16 years, .	\$540.18
Children, . . . .	\$1,323,199	Females above 15 years, .	\$298.93
Piece hands, . . . .	\$42,584,820	Children, . . . .	\$170.58
Males above 16 years, .	\$28,166,329	Piece hands, . . . .	\$424.74
Females above 15 years, .	\$14,126,375	Males above 16 years, .	\$515.88
Children, . . . .	\$292,116	Females above 15 years, .	\$317.15
Salaries paid :		Children, . . . .	\$260.82
Officers, firm members, and clerks, . . . .	\$33,826,172	Officers, firm members, and clerks, . . . .	\$892.23
Males above 16 years, .	\$31,343,429	Males above 16 years, .	\$965.16
Females above 15 years, .	\$2,482,743	Females above 15 years, .	\$456.64

The total value of product for the Census year 1890, according to the returns of the United States Census, as shown by the above table, was \$888,160,403. On page xxiii of the Annual Statistics of Manufactures for 1890, an estimate of the total product was presented, based upon the annual returns made to this office. This estimate, upon one method of computation, reached the sum of \$880,614,364, or by a method of averaging, the sum of \$871,061,163 which was by the Bureau regarded as a fair estimate of the entire output of the productive industry of the Commonwealth for the year 1890. The fact that this estimate so closely approaches the actual amount disclosed by the United States Census indicates the accuracy of our annual returns, and supports the validity of the results shown by them.

I wish again to commend the efficient services of Mr. Frank H. Drown, in charge of the Division of Manufactures in this Bureau, and of the clerical force which, under his immediate direction, has been engaged in the preparation of this volume. The continued co-operation and assistance of Mr. Charles F. Pidgin, Chief Clerk of the Bureau, is also especially acknowledged.

H. G. W.



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# STATISTICS OF MANUFACTURES.

1893.



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PRIVATE FIRMS AND CORPORATIONS;  
PARTNERS AND STOCKHOLDERS:  
BY INDUSTRIES.

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# PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

1892.

[There are duplications in the columns devoted to "Number of Private Firms," "Partners," "Number of Corporations," and "Stockholders." These duplications are indicated by an asterisk (\*). They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for "All Industries."]

	INDUSTRIES.	Number of Estab- lishments Considered	Number of Private Firms	PARTNERS	
				Males	Females
1	Agricultural implements, . . . . .	11	6	8	-
2	Arms and ammunition, . . . . .	13	8	12	-
3	Artisans' tools, . . . . .	65	54	73	3
4	Awnings, sails, tents, etc., . . . . .	39	39	52	-
5	Boots and shoes, . . . . .	712	*672	*1,070	11
6	Boxes (paper and wooden), . . . . .	136	*123	*180	1
7	Brick, tiles, and sewer pipe, . . . . .	49	40	62	5
8	Brooms, brushes, and mops, . . . . .	21	19	32	2
9	Burial cases, caskets, coffins, etc., . . . . .	6	5	6	-
10	Buttons and dress trimmings, . . . . .	19	12	19	1
11	Carpetings, . . . . .	11	4	4	-
12	Carriages and wagons, . . . . .	132	120	165	-
13	Cement, kaolin, lime, and plaster, . . . . .	7	5	9	-
14	Chemical preparations (compounded), . . . . .	10	6	7	2
15	Clocks, watches, and jewelry, . . . . .	97	92	131	7
16	Clothing, . . . . .	135	114	227	2
17	Cooking, lighting, and heating apparatus, . . . . .	36	20	33	1
18	Cordage and twine, . . . . .	27	14	20	-
19	Corks, bungs, and taps, . . . . .	3	3	4	-
20	Cotton goods, . . . . .	149	34	66	6
21	Cotton, woollen, and other textiles, . . . . .	3	1	3	-
22	Crayons, pencils, crucibles, etc., . . . . .	3	1	2	-
23	Drugs and medicines, . . . . .	23	15	25	1
24	Dyestuffs, . . . . .	5	3	4	1
25	Earthen, plaster, and stone ware, . . . . .	7	6	10	-
26	Electrical apparatus and appliances, . . . . .	15	8	10	-
27	Electroplating, . . . . .	9	9	12	-
28	Emery and sand paper and cloth, etc., . . . . .	10	2	3	-
29	Fancy articles, etc., . . . . .	5	4	7	-
30	Fertilizers, . . . . .	5	5	7	-



# PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

1892.

[There are duplications in the columns devoted to "Number of Private Firms," "Partners," "Number of Corporations," and "Stockholders." These duplications are indicated by an asterisk (\*). They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for "All Industries."]

PARTNERS			Number of Corpora- tions	STOCKHOLDERS				AGGREGATES: Partners and Stockholders	
Special	Estates	Total		Males	Females	Banks, Trustees, etc.	Total		
-	-	8	5	65	21	1	87	95	1
1	-	13	5	102	26	1	129	142	2
-	-	76	11	356	235	54	645	721	3
-	-	52	-	-	-	-	-	52	4
22	1	*1,104	*40	*321	36	-	*357	*1,461	5
2	-	*183	13	66	44	9	119	*302	6
-	-	67	9	215	68	1	284	351	7
-	-	34	2	23	11	3	37	71	8
-	-	6	1	29	5	5	39	45	9
-	-	20	*7	*65	16	2	*83	*103	10
-	-	4	7	447	359	168	974	978	11
2	-	167	12	207	66	18	291	458	12
-	-	9	2	16	2	1	19	28	13
-	-	9	4	31	7	3	41	50	14
2	-	190	5	136	28	-	164	354	15
1	-	230	21	414	158	21	593	823	16
1	-	35	16	296	65	8	369	404	17
2	-	22	*13	*209	78	9	*296	*318	18
-	-	4	-	-	-	-	-	4	19
-	1	73	*115	*9,837	*6,981	*2,377	*19,195	*19,268	20
-	-	3	*2	*192	*150	*115	*457	*460	21
-	-	2	2	37	13	-	50	52	22
-	-	26	8	89	33	4	126	152	23
-	-	5	2	12	1	-	13	18	24
-	-	10	1	11	3	-	14	24	25
-	-	10	7	<sup>1</sup> 207	38	4	<sup>1</sup> 249	<sup>1</sup> 259	26
-	-	12	-	-	-	-	-	12	27
-	-	3	8	88	15	1	104	107	28
-	-	7	1	4	3	-	7	14	29
-	-	7	-	-	-	-	-	7	30

<sup>1</sup> Includes 1 syndicate.

PRIVATE FIRMS, PARTNERS, ETC.: BY INDUSTRIES—1892  
— Concluded.

	INDUSTRIES.	Number of Estab- lishments Considered	Number of Private Firms	PARTNERS	
				Males	Females
1	Fine arts and taxidermy, . . . . .	3	2	3	-
2	Flax, hemp, jute, and linen goods, . . . . .	7	4	11	-
3	Food preparations, . . . . .	300	265	369	6
4	Furniture, . . . . .	121	*110	*186	5
5	Glass, . . . . .	8	6	7	1
6	Glue, isinglass, and starch, . . . . .	18	14	25	1
7	Hair work (animal and human), . . . . .	9	9	8	1
8	Hose: rubber, linen, etc., . . . . .	3	1	1	-
9	Hosiery and knit goods, . . . . .	42	*27	*48	2
10	Ink, mucilage, and paste, . . . . .	9	9	14	-
11	Ivory, bone, shell, and horn goods, etc., . . . . .	10	10	16	1
12	Leather, . . . . .	148	*134	*225	-
13	Liquors and beverages (not spirituous), . . . . .	23	22	26	1
14	Liquors: malt, distilled, and fermented, . . . . .	53	44	77	6
15	Lumber, . . . . .	21	20	32	1
16	Machines and machinery, . . . . .	335	242	356	10
17	Metals and metallic goods, . . . . .	341	254	374	11
18	Mixed textiles, . . . . .	13	7	8	-
19	Models, lasts, and patterns, . . . . .	46	46	70	1
20	Musical instruments and materials, . . . . .	54	38	61	-
21	Oils and illuminating fluids, . . . . .	10	8	11	1
22	Paints, colors, and crude chemicals, . . . . .	20	16	34	-
23	Paper and paper goods, . . . . .	98	*36	*81	-
24	Perfumes, toilet articles, etc., . . . . .	5	3	3	-
25	Photographs and photographic materials, . . . . .	17	16	19	1
26	Polishes and dressing, . . . . .	29	26	42	3
27	Printing, publishing, and bookbinding, . . . . .	34	*24	*40	1
28	Print works, dye works, and bleacheries, . . . . .	44	30	38	3
29	Railroad construction and equipment, . . . . .	14	2	3	-
30	Rubber and elastic goods, . . . . .	34	*18	*30	1
31	Saddlery and harness, . . . . .	38	36	44	-
32	Scientific instruments and appliances, . . . . .	15	12	21	-
33	Shipbuilding, . . . . .	56	54	75	1
34	Silk and silk goods, . . . . .	12	6	9	1
35	Sporting and athletic goods, . . . . .	7	5	7	-
36	Stone, . . . . .	175	161	250	6
37	Straw and palm leaf goods, . . . . .	20	18	39	1
38	Tallow, candles, soap, and grease, . . . . .	62	59	83	-
39	Tobacco, snuff, and cigars, . . . . .	42	37	53	1
40	Toys and games (children's), . . . . .	8	5	8	2
41	Trunks and valises, . . . . .	7	7	11	-
42	Whips, lashes, and stocks, . . . . .	10	7	14	-
43	Wooden goods, . . . . .	168	154	207	6
44	Woollen goods, . . . . .	125	*88	*139	5
45	Worsted goods, . . . . .	20	10	17	-
46	ALL INDUSTRIES, . . . . .	4,397	3,534	5,477	123

PRIVATE FIRMS, PARTNERS, ETC.: BY INDUSTRIES — 1892  
— Concluded.

PARTNERS			Number of Corpora- tions	STOCKHOLDERS				AGGREGATES: Partners and Stockholders	
Special	Estates	Total		Males	Females	Banks, Trustees, etc.	Total		
-	-	3	1	9	1	1	11	14	1
-	-	11	3	24	28	6	58	69	2
3	-	378	*35	*1 483	92	5	*1 580	*1 958	3
5	1	*197	11	233	109	-	342	*539	4
-	-	8	2	25	1	-	26	34	5
-	1	27	4	35	3	-	38	65	6
-	-	9	-	-	-	-	-	9	7
-	-	1	2	77	12	5	94	95	8
-	-	*50	*15	*2 585	*355	*226	*2 1,166	*2 1,216	9
-	-	14	-	-	-	-	-	14	10
1	-	18	-	-	-	-	-	18	11
5	-	*230	14	160	32	-	192	*422	12
1	-	28	1	24	8	-	32	60	13
-	-	83	*9	*3 69	8	1	*3 78	*3 161	14
-	-	33	1	20	14	3	37	70	15
2	3	371	*93	*2 2,613	*992	173	*2 3,778	*2 4,149	16
1	2	388	87	1,408	545	62	2,015	2,403	17
-	-	8	6	43	5	-	48	56	18
1	-	72	-	-	-	-	-	72	19
-	-	61	16	178	62	1	241	302	20
-	-	12	2	35	21	1	57	69	21
1	-	35	4	46	8	-	54	89	22
-	-	*81	*62	*803	*369	*55	*1,227	*1,308	23
-	-	3	2	7	-	-	7	10	24
-	-	20	1	19	-	-	19	39	25
-	-	45	3	25	5	1	31	76	26
-	-	*41	10	74	17	2	93	*134	27
2	-	43	*14	*613	*483	*452	*1,528	*1,571	28
-	-	3	*12	*4 31	7	2	*4 40	*4 43	29
-	-	*31	16	375	233	61	689	*720	30
-	-	44	2	61	21	-	82	126	31
1	-	22	3	59	4	5	68	90	32
-	-	76	2	22	5	1	28	104	33
-	-	10	6	194	47	2	243	253	34
1	-	8	2	10	-	-	10	18	35
-	-	256	14	290	107	10	407	663	36
-	-	40	2	10	5	-	15	55	37
-	-	83	3	10	1	-	11	94	38
1	1	56	5	40	3	-	43	99	39
-	-	10	3	21	-	-	21	31	40
-	-	11	-	-	-	-	-	11	41
-	-	14	3	100	33	7	140	154	42
-	-	213	14	155	24	11	190	403	43
1	2	*147	*37	*564	*337	162	*1,063	*1,210	44
-	-	17	*10	*298	*122	*45	*465	*482	45
59	12	5,671	820	5 21,860	11,653	3,551	5 37,064	5 42,735	46

<sup>1</sup> Includes 5 syndicates.<sup>2</sup> Includes 1 syndicate.<sup>3</sup> Includes 4 syndicates.<sup>4</sup> Includes 10 railroads.<sup>5</sup> Includes 8 syndicates and 4 railroads.

# PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

1893.

[There are duplications in the columns devoted to "Number of Private Firms," "Partners," "Number of Corporations," and "Stockholders." These duplications are indicated by an asterisk (\*). They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for "All Industries."]

	INDUSTRIES.	Number of Estab- lishments Considered	Number of Private Firms	PARTNERS	
				Males	Females
1	Agricultural implements, . . . . .	11	6	8	-
2	Arms and ammunition, . . . . .	13	8	12	1
3	Artisans' tools, . . . . .	65	54	73	2
4	Awnings, sails, tents, etc., . . . . .	39	39	53	1
5	Boots and shoes, . . . . .	712	*667	*1,052	10
6	Boxes (paper and wooden), . . . . .	136	*121	*175	2
7	Brick, tiles, and sewer pipe, . . . . .	49	40	58	3
8	Brooms, brushes, and mops, . . . . .	21	19	29	2
9	Burial cases, caskets, coffins, etc., . . . . .	6	5	9	-
10	Buttons and dress trimmings, . . . . .	19	11	17	1
11	Carpetings, . . . . .	11	4	5	-
12	Carriages and wagons, . . . . .	132	119	161	-
13	Cement, kaolin, lime, and plaster, . . . . .	7	5	9	-
14	Chemical preparations (compounded), . . . . .	10	6	7	2
15	Clocks, watches, and jewelry, . . . . .	97	90	173	11
16	Clothing, . . . . .	135	112	220	2
17	Cooking, lighting, and heating apparatus, . . . . .	36	20	31	-
18	Cordage and twine, . . . . .	27	14	19	-
19	Corks, bungs, and taps, . . . . .	3	3	4	-
20	Cotton goods, . . . . .	149	33	54	6
21	Cotton, woollen, and other textiles, . . . . .	3	1	3	-
22	Crayons, pencils, crucibles, etc., . . . . .	3	1	2	-
23	Drugs and medicines, . . . . .	23	14	21	2
24	Dyestuffs, . . . . .	5	3	4	1
25	Earthen, plaster, and stone ware, . . . . .	7	6	10	-
26	Electrical apparatus and appliances, . . . . .	15	8	12	-
27	Electroplating, . . . . .	9	9	11	-
28	Emery and sand paper and cloth, etc., . . . . .	10	2	3	-
29	Fancy articles, etc., . . . . .	5	4	7	-
30	Fertilizers, . . . . .	5	5	7	-

# PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

1893.

[There are duplications in the columns devoted to "Number of Private Firms," "Partners," "Number of Corporations," and "Stockholders." These duplications are indicated by an asterisk (\*). They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for "All Industries."]

PARTNERS			Number of Corpora- tions	STOCKHOLDERS				AGGREGATES: Partners and Stockholders	
Special	Estates	Total		Males	Females	Banks, Trustees, etc.	Total		
-	-	8	5	68	21	1	90	98	1
-	-	13	5	94	26	11	131	144	2
-	1	76	11	383	242	65	690	766	3
-	-	54	-	-	-	-	-	54	4
18	6	*1,086	*45	*353	37	3	*393	*1,479	5
3	-	*180	15	110	19	2	131	*311	6
1	1	63	9	218	66	6	290	353	7
-	1	32	2	22	12	3	37	69	8
-	-	9	1	29	5	5	39	48	9
-	-	18	*8	*77	14	2	*93	*111	10
-	-	5	7	429	364	183	976	981	11
1	1	163	13	236	68	19	323	486	12
-	-	9	2	14	2	-	16	25	13
-	-	9	4	31	10	5	46	55	14
7	-	191	7	149	29	-	178	369	15
-	1	223	23	385	177	32	594	817	16
1	1	33	16	235	86	9	380	413	17
2	1	22	*13	*205	85	9	*299	*321	18
-	-	4	-	-	-	-	-	4	19
-	3	63	*116	*9,690	*7,296	*2,635	*19,621	*19,684	20
-	-	3	*2	*191	*159	*118	*468	*471	21
-	-	2	2	35	15	-	50	52	22
-	-	23	9	82	36	5	123	146	23
-	-	5	2	14	1	1	16	21	24
-	-	10	1	11	3	-	14	24	25
-	-	12	7	<sup>1</sup> 194	43	9	<sup>1</sup> 246	<sup>1</sup> 253	26
-	-	11	-	-	-	-	-	11	27
-	-	3	8	87	17	1	105	108	28
-	-	7	1	4	3	-	7	14	29
-	-	7	-	-	-	-	-	7	30

<sup>1</sup> Includes 1 syndicate.

PRIVATE FIRMS, PARTNERS, ETC.: BY INDUSTRIES—1893  
— Concluded.

	INDUSTRIES.	Number of Estab- lishments Considered	Number of Private Firms	PARTNERS	
				Males	Females
1	Fine arts and taxidermy, . . . . .	3	2	3	-
2	Flax, hemp, jute, and linen goods, . . . . .	7	4	11	-
3	Food preparations, . . . . .	300	262	370	3
4	Furniture, . . . . .	121	*109	*182	5
5	Glass, . . . . .	8	6	7	1
6	Glue, isinglass, and starch, . . . . .	18	14	26	2
7	Hair work (animal and human), . . . . .	9	9	8	1
8	Hose: rubber, linen, etc., . . . . .	3	1	1	-
9	Hosiery and knit goods, . . . . .	42	*28	*43	3
10	Ink, mucilage, and paste, . . . . .	9	9	13	-
11	Ivory, bone, shell, and horn goods, etc., . . . . .	10	10	16	1
12	Leather, . . . . .	148	*131	*219	-
13	Liquors and beverages (not spirituous), . . . . .	23	21	24	1
14	Liquors: malt, distilled, and fermented, . . . . .	53	40	66	6
15	Lumber, . . . . .	21	19	29	1
16	Machines and machinery, . . . . .	335	239	338	11
17	Metals and metallic goods, . . . . .	341	250	361	6
18	Mixed textiles, . . . . .	13	4	4	-
19	Models, lasts, and patterns, . . . . .	46	45	67	1
20	Musical instruments and materials, . . . . .	54	36	56	-
21	Oils and illuminating fluids, . . . . .	10	8	13	-
22	Paints, colors, and crude chemicals, . . . . .	20	14	27	-
23	Paper and paper goods, . . . . .	98	*32	*70	-
24	Perfumes, toilet articles, etc., . . . . .	5	3	3	-
25	Photographs and photographic materials, . . . . .	17	16	18	1
26	Polishes and dressing, . . . . .	29	24	38	3
27	Printing, publishing, and bookbinding, . . . . .	34	*23	*37	1
28	Print works, dye works, and blecherics, . . . . .	44	30	40	4
29	Railroad construction and equipment, . . . . .	14	2	3	-
30	Rubber and elastic goods, . . . . .	34	*18	*31	1
31	Saddlery and harness, . . . . .	38	36	42	-
32	Scientific instruments and appliances, . . . . .	15	12	21	-
33	Shipbuilding, . . . . .	56	54	73	1
34	Silk and silk goods, . . . . .	12	5	6	1
35	Sporting and athletic goods, . . . . .	7	5	7	-
36	Stone, . . . . .	175	161	240	8
37	Straw and palm leaf goods, . . . . .	20	18	37	1
38	Tallow, candles, soap, and grease, . . . . .	62	58	80	1
39	Tobacco, snuff, and cigars, . . . . .	42	37	51	3
40	Toys and games (children's), . . . . .	8	5	8	2
41	Trunks and valises, . . . . .	7	7	11	-
42	Whips, lashes, and stocks, . . . . .	10	7	14	-
43	Wooden goods, . . . . .	168	151	204	9
44	Woollen goods, . . . . .	125	*87	*135	4
45	Worsted goods, . . . . .	20	9	18	1
46	ALL INDUSTRIES, . . . . .	4,397	3,478	5,292	129



PRIVATE FIRMS, PARTNERS, ETC.: BY INDUSTRIES—1893  
—Concluded.

PARTNERS			Number of Corpora- tions	STOCKHOLDERS				AGGREGATES: Partners and Stockholders	
Special	Estates	Total		Males	Females	Banks, Trustees, etc.	Total		
-	-	3	1	9	1	-	10	13	1
-	-	11	3	27	27	9	63	74	2
3	-	376	*38	*1 492	94	9	*1 595	*1 971	3
5	1	*193	12	200	111	45	356	*549	4
-	-	8	2	27	1	1	29	37	5
-	1	29	4	35	4	-	39	68	6
-	-	9	-	-	-	-	-	9	7
-	-	1	2	86	21	5	112	113	8
-	-	*46	*14	*2 596	*383	*235	*2 1,214	*2 1,260	9
-	-	13	-	-	-	-	-	13	10
-	1	18	-	-	-	-	-	18	11
5	1	*225	*17	*193	*43	*4	*240	*465	12
1	-	26	2	40	5	1	46	72	13
-	-	72	*13	*81	11	7	*399	*3171	14
-	-	30	2	18	15	6	39	69	15
1	7	357	*96	*2,745	*1,156	187	*2,408	*2,445	16
4	6	377	*91	*4 1,305	549	120	*4 1,974	*4 2,351	17
-	-	4	9	2 53	9	-	2 62	2 66	18
-	-	68	1	20	-	-	20	88	19
-	-	56	18	203	65	1	269	325	20
-	-	13	2	36	21	4	61	74	21
-	-	27	6	60	12	-	72	99	22
-	1	*71	*66	*844	*393	*66	*1,303	*1,374	23
-	-	3	2	7	-	-	7	10	24
-	-	19	1	9	-	-	9	28	25
1	-	42	5	31	7	1	39	81	26
1	-	*39	11	78	20	1	99	*138	27
-	-	44	*14	*606	*481	*454	*1,541	*1,585	28
-	-	3	*12	*5 32	7	3	*5 42	*5 45	29
-	-	*32	16	407	295	67	769	*801	30
-	1	43	2	65	14	-	79	122	31
1	-	22	3	58	4	5	67	89	32
-	-	74	2	38	11	-	49	123	33
-	-	7	7	172	40	5	217	224	34
1	-	8	2	10	-	-	10	18	35
-	-	248	14	288	103	10	401	649	36
-	-	38	2	10	5	1	16	54	37
-	-	81	4	11	7	-	18	99	38
-	-	54	5	36	4	1	41	95	39
-	-	10	3	18	-	-	18	28	40
-	-	11	-	-	-	-	-	11	41
-	-	14	3	133	54	17	204	218	42
-	1	214	17	160	24	15	199	413	43
1	3	*143	*38	*581	*351	159	*1,091	*1,234	44
2	-	21	*11	*303	*125	*46	*474	*495	45
59	39	5,519	872	21,932	12,301	4,051	68,284	643,803	46

<sup>1</sup> Includes 6 syndicates.    <sup>2</sup> Includes 1 syndicate.    <sup>3</sup> Includes 4 syndicates.<sup>4</sup> Includes 2 syndicates.    <sup>5</sup> Includes 10 railroads.    <sup>6</sup> Includes 9 syndicates and 4 railroads.



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CAPITAL INVESTED:  
BY INDUSTRIES.

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## CAPITAL INVESTED: BY INDUSTRIES.

1892, 1893.

[In this presentation, the figures given under "Amount of Capital Invested" represent the returns made by the same establishments, in each industry, for the years 1892 and 1893, the whole number of establishments considered in "All Industries" being 4,397. Comparison is made, as regards the amount of capital invested, between these two years. The relative increase or decrease in 1893 as compared with 1892 is given with its equivalent percentage.]

INDUSTRIES.	Number of Estab- lishments Con- sidered	AMOUNT OF CAPITAL INVESTED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Agricultural implements, . . .	11	\$1,395,811	\$1,344,889	—\$50,922	—3.65
Arms and ammunition, . . .	13	4,720,960	4,813,121	+92,161	+1.95
Artisans' tools, . . . . .	65	2,780,126	3,154,630	+374,504	+13.47
Awnings, sails, tents, etc., . .	39	181,925	168,007	—13,918	—7.65
Boots and shoes, . . . . .	712	29,067,583	29,303,026	+235,443	+0.81
Boxes (paper and wooden), . .	136	2,429,760	2,606,756	+176,996	+7.28
Brick, tiles, and sewer pipe, . .	49	1,675,676	1,782,580	+106,904	+6.38
Brooms, brushes, and mops, . .	21	813,644	814,729	+1,085	+0.13
Burial cases, caskets, coffins, etc., .	6	358,009	298,263	—59,746	—16.69
Buttons and dress trimmings, . .	19	918,781	952,435	+33,654	+3.66
Carpetings, . . . . .	11	7,828,754	7,993,248	+164,494	+2.10
Carriages and wagons, . . . .	132	3,026,145	3,108,416	+82,271	+2.72
Cement, kaolin, lime, and plaster,	7	90,300	96,300	+6,000	+6.64
Chemical preparations (compound- ed), . . . . .	10	786,857	826,121	+39,264	+4.99
Clocks, watches, and jewelry, . .	97	5,327,142	5,095,165	—231,977	—4.35
Clothing, . . . . .	135	10,843,699	10,533,655	—310,014	—2.86
Cooking, lighting, and heating ap- paratus, . . . . .	36	2,608,627	2,538,827	—69,800	—2.68
Cordage and twine, . . . . .	27	5,022,559	6,160,346	+1,137,787	+22.65
Corks, bungs, and taps, . . . .	3	28,500	20,500	—8,000	—28.07
Cotton goods, . . . . .	149	119,652,351	118,855,744	—796,607	—0.67
Cotton, woollen, and other textiles,	3	3,564,471	3,532,450	—32,021	—0.90
Crayons, pencils, crucibles, etc., .	3	60,000	60,000	=	=
Drugs and medicines, . . . . .	23	1,286,067	1,342,310	+56,243	+4.37
Dyestuffs, . . . . .	5	622,000	626,500	+4,500	+0.72
Earthen, plaster, and stone ware, .	7	399,050	398,969	—81	—0.02
Electrical apparatus and appliances,	15	10,772,741	10,834,900	+62,159	+0.58
Electroplating, . . . . .	9	47,600	46,100	—1,500	—3.15
Emery and sand paper and cloth, etc.,	10	773,853	789,965	+16,112	+2.08
Fancy articles, etc., . . . . .	5	60,000	62,468	+2,468	+4.11
Fertilizers, . . . . .	5	81,267	82,100	+833	+1.03
Fine arts and taxidermy, . . . .	3	16,500	21,500	+5,000	+30.30
Flax, hemp, jute, and linen goods,	7	2,581,300	2,485,382	—95,918	—3.72
Food preparations, . . . . .	300	17,603,676	16,716,000	—887,676	—5.07
Furniture, . . . . .	121	5,436,654	5,386,102	—50,552	—0.93

\* No change in capital invested.

## CAPITAL INVESTED: BY INDUSTRIES — 1892, 1893 — Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AMOUNT OF CAPITAL INVESTED		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percent- ages
Glass, . . . . .	8	\$499,500	\$530,500	+\$31,000	+6.21
Glue, isinglass, and starch, . .	18	1,144,132	1,125,446	—18,686	—1.63
Hair work (animal and human), .	9	204,500	224,500	+20,000	+9.78
Hose: rubber, linen, etc., . . .	3	755,681	705,000	—50,681	—6.71
Hosiery and knit goods, . . . .	42	3,590,745	4,515,560	+924,815	+25.76
Ink, mucilage, and paste, . . .	9	294,000	293,000	—1,000	—0.34
Ivory, bone, shell, and horn goods, etc., . . . . .	10	212,183	205,600	—6,583	—3.10
Leather, . . . . .	148	8,011,549	7,963,904	—47,645	—0.59
Liquors and beverages (not spirit- uous), . . . . .	23	338,205	413,432	+75,227	+22.24
Liquors: malt, distilled, and fer- mented, . . . . .	53	7,307,634	7,823,013	+515,379	+7.05
Lumber, . . . . .	21	2,324,720	2,612,405	+287,685	+12.38
Machines and machinery, . . .	335	30,811,473	32,917,618	+2,106,145	+6.84
Metals and metallic goods, . . .	341	20,780,435	20,390,350	—390,085	—1.88
Mixed textiles, . . . . .	13	1,047,542	962,388	—85,154	—8.13
Models, lasts, and patterns, . .	46	466,736	524,688	+57,952	+12.42
Musical instruments and materials,	54	5,036,944	5,298,941	+261,997	+5.20
Oils and illuminating fluids, . .	10	605,000	711,019	+106,019	+17.52
Paints, colors, and crude chemicals,	20	1,181,405	1,003,364	—178,041	—15.07
Paper and paper goods, . . . .	98	21,944,434	23,137,410	+1,192,976	+5.44
Perfumes, toilet articles, etc., . .	5	149,000	147,450	—1,550	—1.04
Photographs and photographic ma- terials, . . . . .	17	206,925	172,844	—34,081	—16.47
Polishes and dressing, . . . .	29	976,084	1,014,723	+38,639	+3.96
Printing, publishing, and bookbind- ing, . . . . .	34	3,840,023	3,921,071	+81,048	+2.11
Print works, dye works, and bleach- eries, . . . . .	44	15,551,307	17,138,649	+1,587,342	+10.21
Railroad construction and equip- ment, . . . . .	14	1,777,000	1,762,000	—15,000	—0.84
Rubber and elastic goods, . . .	34	10,344,439	11,148,812	+804,373	+7.78
Saddlery and harness, . . . .	38	274,368	256,850	—17,518	—6.38
Scientific instruments and appli- ances, . . . . .	15	1,624,499	1,602,450	—22,049	—1.36
Shipbuilding, . . . . .	56	749,687	924,913	+175,226	+23.37
Silk and silk goods, . . . . .	12	2,345,741	2,631,460	+285,719	+12.18
Sporting and athletic goods, . .	7	244,013	246,726	+2,713	+1.11
Stone, . . . . .	175	3,216,415	3,190,999	—25,416	—0.79
Straw and palm leaf goods, . . .	20	1,848,327	2,022,044	+173,717	+9.40
Tallow, candles, soap, and grease,	62	1,689,968	1,786,575	+96,607	+5.72
Tobacco, snuff, and cigars, . . .	42	1,039,294	969,233	—70,061	—6.74
Toys and games (children's), . .	8	344,000	330,000	—14,000	—4.07
Trunks and valises, . . . . .	7	85,900	81,200	—4,700	—5.47
Whips, lashes, and stocks, . . .	10	713,604	857,000	+143,396	+20.09
Wooden goods, . . . . .	168	3,217,225	3,471,774	+254,549	+7.91
Woollen goods, . . . . .	125	27,220,349	25,554,880	—1,665,469	—6.12
Worsted goods, . . . . .	20	12,132,889	11,038,952	—1,093,937	—9.02
ALL INDUSTRIES, . . . . .	4,397	\$439,015,263	\$444,480,277	+\$5,465,014	+1.24





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STOCK USED: BY INDUSTRIES.

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## STOCK USED: BY INDUSTRIES.

1892, 1893.

[In this presentation, the figures given under "Value of Stock Used" represent the returns made by the same establishments, in each industry, for the years 1892 and 1893, the whole number of establishments considered in "All Industries" being 4,397. Comparison is made, as regards value of stock used, between these two years. The relative increase or decrease in 1893 as compared with 1892 is given with its equivalent percentage.]

INDUSTRIES.	Number of Establishments Considered	VALUE OF STOCK USED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Agricultural implements, . . .	11	\$571,330	\$542,104	-\$29,226	-5.12
Arms and ammunition, . . .	13	584,950	569,129	-15,821	-2.70
Artisans' tools, . . . . .	65	743,569	792,228	+48,659	+6.54
Awnings, sails, tents, etc., . . .	39	320,320	230,511	-89,809	-28.04
Boots and shoes, . . . . .	712	62,667,535	55,028,688	-7,638,847	-12.19
Boxes (paper and wooden), . . .	136	2,602,582	2,374,105	-228,477	-8.78
Brick, tiles, and sewer pipe, . . .	49	411,847	405,477	-6,370	-1.55
Brooms, brushes, and mops, . . .	21	842,082	826,831	-15,251	-1.81
Burial cases, caskets, coffins, etc., .	6	193,735	196,521	+2,786	+1.44
Buttons and dress trimmings, . . .	19	670,526	559,784	-110,742	-16.52
Carpetings, . . . . .	11	5,218,619	4,787,252	-431,367	-8.27
Carriages and wagons, . . . . .	132	1,741,604	1,610,781	-130,823	-7.51
Cement, kaolin, lime, and plaster, .	7	167,540	184,026	+16,486	+9.84
Chemical preparations (compound- ed), . . . . .	10	570,250	471,037	-99,213	-17.40
Clocks, watches, and jewelry, . . .	97	2,318,361	1,781,400	-536,961	-23.16
Clothing, . . . . .	135	16,297,433	13,929,715	-2,367,718	-14.53
Cooking, lighting, and heating ap- paratus, . . . . .	36	1,113,993	957,000	-156,993	-14.09
Cordage and twine, . . . . .	27	6,462,752	6,225,632	-237,120	-3.70
Corks, bungs, and taps, . . . . .	3	15,449	13,642	-1,807	-11.70
Cotton goods, . . . . .	149	46,961,841	47,411,932	+450,091	+0.96
Cotton, woollen, and other textiles,	3	1,780,097	1,461,530	-318,567	-17.90
Crayons, pencils, crucibles, etc., .	3	29,639	20,923	-8,716	-29.41
Drugs and medicines, . . . . .	23	1,953,196	1,606,074	-347,122	-17.77
Dyestuffs, . . . . .	5	684,269	422,354	-261,915	-38.28
Earthen, plaster, and stone ware, .	7	92,621	87,592	-5,029	-5.43
Electrical apparatus and appliances,	15	3,504,241	2,423,098	-1,081,143	-30.85
Electroplating, . . . . .	9	21,971	22,927	+956	+4.35
Emery and sand paper and cloth, etc.,	10	366,566	301,649	-64,917	-17.71
Fancy articles, etc., . . . . .	5	56,879	51,945	-4,934	-8.67
Fertilizers, . . . . .	5	59,089	64,739	+5,650	+9.56
Fine arts and taxidermy, . . . . .	3	3,375	3,145	-230	-6.81
Flax, hemp, jute, and linen goods,	7	2,001,258	2,185,182	+183,924	+6.69
Food preparations, . . . . .	300	65,810,561	63,570,337	-2,240,224	-3.40
Furniture, . . . . .	121	4,654,391	4,085,338	-569,053	-12.23

## STOCK USED: BY INDUSTRIES — 1892, 1893 — Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	VALUE OF STOCK USED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Glass, . . . . .	8	\$126,038	\$91,514	—\$34,524	—27.39
Glue, isinglass, and starch, . .	18	701,027	747,412	+46,385	+6.62
Hair work (animal and human), .	9	416,316	277,225	—139,091	—33.41
Hose: rubber, linen, etc., . .	3	535,135	454,036	—81,099	—15.15
Hosiery and knit goods, . . .	42	3,079,140	2,763,655	—315,485	—10.25
Ink, mucilage, and paste, . .	9	149,290	142,248	—7,042	—4.72
Ivory, bone, shell, and horn goods, etc., . . . . .	10	229,988	199,222	—30,766	—13.38
Leather, . . . . .	148	11,891,499	11,033,354	—858,145	—7.22
Liquors and beverages (not spirit- uous), . . . . .	23	397,236	426,336	+29,100	+7.33
Liquors: malt, distilled, and fer- mented, . . . . .	53	3,519,545	3,512,099	—7,446	—0.21
Lumber, . . . . .	21	1,750,490	1,744,533	—5,957	—0.34
Machines and machinery, . .	335	11,465,690	10,124,464	—1,341,226	—11.70
Metals and metallic goods, . .	341	12,723,710	10,863,682	—1,860,028	—14.62
Mixed textiles, . . . . .	13	1,186,107	1,102,216	—83,891	—7.07
Models, lasts, and patterns, . .	46	267,098	239,909	—27,189	—10.13
Musical instruments and materials,	54	2,655,058	1,925,262	—729,796	—27.49
Oils and illuminating fluids, . .	10	908,161	811,599	—96,562	—10.63
Paints, colors, and crude chemicals,	20	778,722	693,701	—85,021	—10.92
Paper and paper goods, . . .	98	15,170,117	14,376,840	—793,277	—5.23
Perfumes, toilet articles, etc., .	5	143,445	196,640	+53,195	+37.08
Photographs and photographic ma- terials, . . . . .	17	103,272	60,772	—42,500	—41.15
Polishes and dressing, . . .	29	1,132,792	991,399	—141,393	—12.48
Printing, publishing, and bookbind- ing, . . . . .	34	1,210,015	1,203,208	—6,807	—0.56
Print works, dye works, and bleach- eries, . . . . .	44	14,117,102	13,664,265	—452,837	—3.21
Railroad construction and equip- ment, . . . . .	14	2,226,418	4,674,579	+2,448,161	+109.96
Rubber and elastic goods, . .	34	9,824,076	9,916,476	+92,400	+0.94
Saddlery and harness, . . .	38	243,544	178,077	—65,467	—26.88
Scientific instruments and appli- ances, . . . . .	15	848,251	653,096	—195,155	—23.01
Shipbuilding, . . . . .	56	483,656	468,816	+30,210	+6.97
Silk and silk goods, . . . .	12	3,138,633	2,736,744	—401,889	—12.80
Sporting and athletic goods, . .	7	166,503	139,947	—26,556	—15.95
Stone, . . . . .	175	1,031,177	1,057,258	+26,081	+2.53
Straw and palm leaf goods, . .	20	2,347,222	2,381,505	+34,283	+1.46
Tallow, candles, soap, and grease, .	62	2,354,632	2,336,150	—18,482	—0.78
Tobacco, snuff, and cigars, . .	42	1,541,321	1,652,061	+110,740	+7.18
Toys and games (children's), . .	8	237,243	217,847	—19,396	—8.18
Trunks and valises, . . . .	7	158,204	126,836	—31,368	—19.83
Whips, lashes, and stocks, . .	10	426,171	384,758	—41,413	—9.72
Wooden goods, . . . . .	168	2,826,120	2,649,297	—176,823	—6.26
Woollen goods, . . . . .	125	20,360,682	16,674,542	—3,686,140	—18.10
Worsted goods, . . . . .	20	12,239,108	9,948,697	—2,290,411	—18.71
ALL INDUSTRIES, . . . .	4,397	\$376,554,375	\$348,991,905	—\$27,562,470	—7.32



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GOODS MADE: BY INDUSTRIES.

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# GOODS MADE: BY INDUSTRIES.

1892, 1893.

[In this presentation, the figures given under "Value of Goods Made and Work Done" represent the returns made by the same establishments, in each industry, for the years 1892 and 1893, the whole number of establishments considered in "All Industries" being 4,397. Comparison is made, as regards the value of goods made and work done, between these two years. The relative increase or decrease in 1893 as compared with 1892 is given with its equivalent percentage.]

INDUSTRIES.	Number of Establishments Considered	VALUE OF GOODS MADE AND WORK DONE		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Agricultural implements, . . .	11	\$1,212,890	\$1,141,502	-\$71,388	-5.89
Arms and ammunition, . . .	13	1,476,658	2,199,083	+722,425	+48.92
Artisans' tools, . . .	65	2,735,781	2,620,834	-114,947	-4.20
Awnings, sails, tents, etc., . . .	39	552,524	451,397	-101,127	-18.30
Boots and shoes, . . .	712	103,878,098	92,740,686	-11,137,412	-10.72
Boxes (paper and wooden), . . .	136	4,811,881	4,439,942	-371,939	-7.73
Brick, tiles, and sewer pipe, . . .	49	1,504,416	1,387,685	-116,731	-7.76
Brooms, brushes, and mops, . . .	21	1,476,365	1,424,790	-51,575	-3.49
Burial cases, caskets, coffins, etc., . . .	6	319,750	328,675	+\$8,925	+2.79
Buttons and dress trimmings, . . .	19	1,523,003	1,326,105	-196,898	-12.93
Carpetings, . . .	11	8,214,540	7,427,385	-787,155	-9.58
Carriages and wagons, . . .	132	4,171,404	3,887,001	-284,403	-6.82
Cement, kaolin, lime, and plaster, . . .	7	239,886	250,245	+10,359	+4.32
Chemical preparations (compound- ed), . . .	10	1,136,122	936,428	-199,694	-17.58
Clocks, watches, and jewelry, . . .	97	6,794,244	5,561,156	-1,233,088	-18.15
Clothing, . . .	135	27,284,723	24,014,304	-3,270,359	-11.99
Cooking, lighting, and heating ap- paratus, . . .	36	3,414,780	3,202,477	-212,303	-6.22
Cordage and twine, . . .	27	8,722,796	8,144,201	-578,595	-6.63
Corks, bungs, and taps, . . .	3	41,677	40,512	-1,165	-2.80
Cotton goods, . . .	149	90,811,928	88,189,618	-2,622,310	-2.89
Cotton, woollen, and other textiles, . . .	3	3,352,505	2,798,118	-554,387	-16.54
Crayons, pencils, crucibles, etc., . . .	3	62,054	38,843	-23,211	-37.40
Drugs and medicines, . . .	23	3,226,651	3,101,935	-124,716	-3.87
Dyestuffs, . . .	5	867,999	553,833	-314,166	-36.19
Earthen, plaster, and stone ware, . . .	7	348,787	324,436	-24,351	-6.98
Electrical apparatus and appliances, . . .	15	8,189,605	4,813,570	-3,376,035	-41.22
Electroplating, . . .	9	102,712	95,026	-7,686	-7.48
Emery and sand paper and cloth, etc., . . .	10	847,758	645,339	-202,419	-23.88
Fancy articles, etc., . . .	5	147,641	133,810	-13,831	-9.37
Fertilizers, . . .	5	94,204	109,801	+15,597	+16.56
Fine arts and taxidermy, . . .	3	19,800	23,498	+3,698	+18.68
Flax, hemp, jute, and linen goods, . . .	7	2,929,281	3,059,759	+130,478	+4.45
Food preparations, . . .	300	76,627,091	74,169,036	-2,458,055	-3.21
Furniture, . . .	121	8,693,400	7,698,186	-995,214	-11.45

## GOODS MADE: BY INDUSTRIES—1892, 1893—Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	VALUE OF GOODS MADE AND WORK DONE		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Glass, . . . . .	8	\$549,462	\$444,924	—\$104,538	—19.03
Glue, isinglass, and starch, . . . . .	18	1,163,977	1,284,525	+120,548	+10.36
Hair work (animal and human), . . . . .	9	644,148	474,300	—169,848	—26.37
Hose: rubber, linen, etc., . . . . .	3	838,650	786,483	—52,167	—6.22
Hosiery and knit goods, . . . . .	42	5,913,402	5,216,381	—697,021	—11.79
Ink, mucilage, and paste, . . . . .	9	426,966	412,973	—13,993	—3.28
Ivory, bone, shell, and horn goods, etc., . . . . .	10	473,410	428,510	—44,900	—9.48
Leather, . . . . .	148	18,644,270	15,548,822	—3,095,448	—16.60
Liquors and beverages (not spirit- uous), . . . . .	23	791,568	742,636	—48,932	—6.18
Liquors: malt, distilled, and fer- mented, . . . . .	53	8,630,909	8,878,318	+247,409	+2.87
Lumber, . . . . .	21	2,826,426	2,587,980	—238,446	—8.44
Machines and machinery, . . . . .	335	29,960,988	27,975,359	—1,985,629	—6.63
Metals and metallic goods, . . . . .	341	26,259,252	22,878,245	—3,381,007	—12.83
Mixed textiles, . . . . .	13	1,838,645	1,638,269	—200,376	—10.90
Models, lasts, and patterns, . . . . .	46	886,209	795,684	—90,525	—10.21
Musical instruments and materials, . . . . .	54	6,229,274	3,916,694	—2,312,580	—37.12
Oils and illuminating fluids, . . . . .	10	1,057,102	971,265	—85,837	—8.12
Paints, colors, and crude chemicals, . . . . .	20	1,284,909	1,247,716	—37,193	—2.89
Paper and paper goods, . . . . .	98	26,029,658	22,746,104	—3,283,554	—12.61
Perfumes, toilet articles, etc., . . . . .	5	283,481	252,419	—31,062	—10.96
Photographs and photographic ma- terials, . . . . .	17	317,583	236,766	—80,817	—25.45
Polishes and dressing, . . . . .	29	1,987,454	1,814,405	—173,049	—8.71
Printing, publishing, and bookbind- ing, . . . . .	34	4,397,204	4,447,606	+50,402	+1.15
Print works, dye works, and bleach- eries, . . . . .	44	20,260,330	18,956,125	—1,304,205	—6.44
Railroad construction and equip- ment, . . . . .	14	4,275,835	7,255,656	+2,979,821	+69.69
Rubber and elastic goods, . . . . .	34	14,244,814	14,506,016	+261,202	+1.83
Saddlery and harness, . . . . .	38	518,697	386,487	—132,210	—25.49
Scientific instruments and appli- ances, . . . . .	15	1,739,197	1,583,069	—156,128	—8.98
Shipbuilding, . . . . .	56	1,191,999	1,114,403	—77,596	—6.51
Silk and silk goods, . . . . .	12	4,952,024	3,939,629	—1,012,395	—20.44
Sporting and athletic goods, . . . . .	7	449,765	335,050	—114,715	—25.51
Stone, . . . . .	175	4,036,599	4,218,530	+181,931	+4.51
Straw and palm leaf goods, . . . . .	20	4,509,264	4,576,766	+67,502	+1.50
Tallow, candles, soap, and grease, . . . . .	62	3,432,877	3,414,700	—18,177	—0.53
Tobacco, snuff, and cigars, . . . . .	42	3,205,552	3,204,512	—1,040	—0.03
Toys and games (children's), . . . . .	8	632,682	586,730	—45,952	—7.26
Trunks and valises, . . . . .	7	295,119	240,018	—55,101	—18.67
Whips, lashes, and stocks, . . . . .	10	1,078,496	987,538	—90,958	—8.37
Wooden goods, . . . . .	168	5,643,281	5,442,780	—200,501	—3.55
Woollen goods, . . . . .	125	34,074,848	28,061,654	—6,013,194	—17.65
Worsted goods, . . . . .	20	17,328,062	15,528,227	—1,799,835	—10.39
ALL INDUSTRIES, . . . . .	4,397	\$639,137,402	\$587,343,550	—\$51,793,852	—8.10

# COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS. FOR THE FIVE YEARS

1889 — 1893.

[In this presentation, the figures given under "Value of Goods Made and Work Done" represent the returns made by the same establishments, in each industry considered, for each of the five years 1889, 1890, 1891, 1892, and 1893, the whole number of establishments represented being 2,472. The table allows of comparison being made, as regards the value of goods made and work done, between any two years of the five years for which figures are given. The relative increase or decrease in 1890 as compared with 1889, in 1891 as compared with 1890, in 1892 as compared with 1891, and in 1893 as compared with 1892, is given, with its equivalent percentage.]

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Agricultural Implements.</i>				
1889, . . . . .	7	\$1,325,538	-	-
1890, . . . . .	7	1,391,066	+\$65,528	+4.94
1891, . . . . .	7	1,190,571	-200,495	-14.41
1892, . . . . .	7	1,207,526	+16,955	+1.42
1893, . . . . .	7	1,136,310	-71,216	-5.90
<i>Arms and Ammunition.</i>				
1889, . . . . .	10	\$1,814,277	-	-
1890, . . . . .	10	1,885,766	+\$71,489	+3.94
1891, . . . . .	10	2,203,805	+318,039	+16.87
1892, . . . . .	10	2,245,052	+41,247	+1.87
1893, . . . . .	10	2,044,297	-200,755	-8.94
<i>Artisans' Tools.</i>				
1889, . . . . .	23	\$1,892,336	-	-
1890, . . . . .	23	2,168,974	+\$276,638	+14.62
1891, . . . . .	23	2,313,703	+144,729	+6.67
1892, . . . . .	23	2,306,544	-7,159	-0.31
1893, . . . . .	23	2,199,354	-107,190	-4.65
<i>Awnings, Sails, Tents, etc.</i>				
1889, . . . . .	16	\$285,786	-	-
1890, . . . . .	16	409,571	+\$123,785	+43.31
1891, . . . . .	16	396,523	-13,048	-3.19
1892, . . . . .	16	396,663	+140	+0.04
1893, . . . . .	16	306,087	-90,576	-22.83
<i>Boots and Shoes.</i>				
1889, . . . . .	347	\$65,169,395	-	-
1890, . . . . .	347	70,361,433	+\$5,192,038	+7.97
1891, . . . . .	347	68,724,454	-1,636,979	-2.33
1892, . . . . .	347	74,791,927	+6,067,473	+8.83
1893, . . . . .	347	65,690,765	-9,101,162	-12.17

## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Boxes (Paper and Wooden).</i>				
1889, . . . . .	94	\$3,616,018	-	-
1890, . . . . .	94	3,633,764	+\$17,746	+0.49
1891, . . . . .	94	3,678,256	+44,492	+1.22
1892, . . . . .	94	3,937,608	+259,352	+7.05
1893, . . . . .	94	3,702,219	-235,389	-5.98
<i>Brick, Tiles, and Sewer Pipe.</i>				
1889, . . . . .	33	\$1,015,233	-	-
1890, . . . . .	33	1,102,228	+\$86,995	+8.57
1891, . . . . .	33	1,140,365	+38,137	+3.46
1892, . . . . .	33	1,106,056	-34,309	-3.01
1893, . . . . .	33	1,017,817	-88,239	-7.98
<i>Brooms, Brushes, and Mops.</i>				
1889, . . . . .	18	\$1,218,016	-	-
1890, . . . . .	18	1,242,812	+\$24,796	+2.04
1891, . . . . .	18	1,274,611	+31,799	+2.56
1892, . . . . .	18	1,385,429	+110,818	+8.69
1893, . . . . .	18	1,383,920	-51,499	-3.72
<i>Burial Cases, Caskets, Coffins, etc.</i>				
1889, . . . . .	5	\$318,941	-	-
1890, . . . . .	5	310,089	-\$8,852	-2.78
1891, . . . . .	5	318,496	+8,407	+2.71
1892, . . . . .	5	316,114	-2,382	-0.75
1893, . . . . .	5	325,039	+8,925	+2.82
<i>Buttons and Dress Trimmings.</i>				
1889, . . . . .	15	\$1,302,200	-	-
1890, . . . . .	15	1,245,687	-\$56,513	-4.34
1891, . . . . .	15	1,388,414	+142,727	+11.46
1892, . . . . .	15	1,471,353	+82,939	+5.97
1893, . . . . .	15	1,232,626	-238,727	-16.22
<i>Carpetings.</i>				
1889, . . . . .	9	\$6,692,417	-	-
1890, . . . . .	9	7,293,059	+\$600,642	+8.97
1891, . . . . .	9	8,488,162	+1,195,103	+16.39
1892, . . . . .	9	7,654,985	-833,177	-9.82
1893, . . . . .	9	7,079,151	-575,834	-7.52
<i>Carriages and Wagons.</i>				
1889, . . . . .	48	\$1,991,832	-	-
1890, . . . . .	48	2,432,092	+\$440,260	+22.10
1891, . . . . .	48	2,495,398	+63,306	+2.60
1892, . . . . .	48	2,511,008	+15,610	+0.63
1893, . . . . .	48	2,254,332	-256,676	-10.22

## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Cement, Kaolin, Lime, and Plaster.</i>				
1889, . . . . .	5	\$161,150	-	-
1890, . . . . .	5	157,900	—\$3,250	—2.02
1891, . . . . .	5	142,321	—15,579	—9.87
1892, . . . . .	5	156,536	+14,215	+9.99
1893, . . . . .	5	146,925	—9,611	—6.14
<i>Chemical Preparations (Compounded).</i>				
1889, . . . . .	7	\$373,129	-	-
1890, . . . . .	7	437,320	+\$64,191	+17.20
1891, . . . . .	7	425,015	—12,305	—2.81
1892, . . . . .	7	569,172	+144,157	+33.92
1893, . . . . .	7	456,888	—112,284	—19.73
<i>Clocks, Watches, and Jewelry.</i>				
1889, . . . . .	68	\$5,486,481	-	-
1890, . . . . .	68	5,791,025	+\$304,544	+5.55
1891, . . . . .	68	5,783,693	—7,332	—0.13
1892, . . . . .	68	6,020,370	+236,677	+4.09
1893, . . . . .	68	4,867,593	—1,152,777	—19.15
<i>Clothing.</i>				
1889, . . . . .	89	\$21,327,620	-	-
1890, . . . . .	89	22,475,910	+\$1,148,290	+5.38
1891, . . . . .	89	22,683,437	+207,527	+0.92
1892, . . . . .	89	23,561,920	+878,483	+3.87
1893, . . . . .	89	20,781,703	—2,780,217	—11.80
<i>Cooking, Lighting, and Heating Apparatus.</i>				
1889, . . . . .	24	\$2,778,421	-	-
1890, . . . . .	24	2,654,783	—\$123,638	—4.45
1891, . . . . .	24	2,567,418	+212,635	+8.01
1892, . . . . .	24	2,919,063	+51,645	+1.80
1893, . . . . .	24	2,775,627	—143,436	—4.91
<i>Cordage and Twine.</i>				
1889, . . . . .	18	\$7,387,259	-	-
1890, . . . . .	18	7,429,372	+\$42,113	+0.57
1891, . . . . .	18	7,590,508	+161,136	+2.17
1892, . . . . .	18	8,681,085	+1,090,577	+14.37
1893, . . . . .	18	8,106,726	—574,359	—6.62
<i>Corks, Bungs, and Taps.</i>				
1889, . . . . .	3	\$52,091	-	-
1890, . . . . .	3	51,397	—\$694	—1.33
1891, . . . . .	3	39,150	—12,247	—23.83
1892, . . . . .	3	41,677	+2,527	+6.45
1893, . . . . .	3	40,512	—1,165	—2.80



## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889—1893—Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Cotton Goods.</i>				
1889, . . . . .	136	\$82,971,284	-	-
1890, . . . . .	136	86,232,332	+\$3,261,048	+3.93
1891, . . . . .	136	85,065,675	-1,166,657	-1.35
1892, . . . . .	136	86,987,750	+1,922,075	+2.26
1893, . . . . .	136	82,757,902	-4,229,848	-4.86
<i>Cotton, Woollen, and Other Textiles.</i>				
1889, . . . . .	3	\$3,019,600	-	-
1890, . . . . .	3	3,315,200	+\$295,510	+9.79
1891, . . . . .	3	3,673,724	+358,524	+10.81
1892, . . . . .	3	3,352,505	-321,219	-8.74
1893, . . . . .	3	2,798,118	-554,387	-16.54
<i>Crayons, Pencils, Crucibles, etc.</i>				
1889, . . . . .	3	\$65,795	-	-
1890, . . . . .	3	89,909	+\$23,214	+35.28
1891, . . . . .	3	129,685	+40,676	+45.70
1892, . . . . .	3	62,054	-67,631	-52.15
1893, . . . . .	3	38,843	-23,211	-37.40
<i>Drugs and Medicines.</i>				
1889, . . . . .	15	\$2,262,931	-	-
1890, . . . . .	15	2,432,621	+\$169,690	+7.50
1891, . . . . .	15	2,691,510	+258,889	+10.64
1892, . . . . .	15	2,652,115	-39,395	-1.46
1893, . . . . .	15	2,543,525	-108,590	-4.09
<i>Dyestuffs.</i>				
1889, . . . . .	5	\$975,965	-	-
1890, . . . . .	5	968,876	-\$7,089	-0.73
1891, . . . . .	5	923,522	-45,354	-4.68
1892, . . . . .	5	867,999	-55,523	-6.01
1893, . . . . .	5	553,833	-314,166	-36.19
<i>Earthen, Plaster, and Stone Ware.</i>				
1889, . . . . .	4	\$164,773	-	-
1890, . . . . .	4	207,341	+\$162,568	+98.66
1891, . . . . .	4	241,572	+34,231	+16.51
1892, . . . . .	4	237,000	-4,572	-1.89
1893, . . . . .	4	230,100	-6,900	-2.91
<i>Electrical Apparatus and Appliances.</i>				
1889, . . . . .	3	\$3,170,580	-	-
1890, . . . . .	3	12,665,045	+\$9,494,465	+299.46
1891, . . . . .	3	10,403,211	-2,261,834	-17.86
1892, . . . . .	3	7,538,753	-2,864,458	-27.53
1893, . . . . .	3	4,207,099	-3,331,654	-44.19



## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Electroplating.</i>				
1889, . . . . .	4	\$47,010	-	-
1890, . . . . .	4	46,875	—\$135	—0.29
1891, . . . . .	4	51,237	+4,362	+9.31
1892, . . . . .	4	55,250	+4,013	+7.83
1893, . . . . .	4	50,026	—5,224	—9.46
<i>Emery and Sand Paper and Cloth, etc.</i>				
1889, . . . . .	8	\$665,485	-	-
1890, . . . . .	8	701,327	+\$35,842	+5.39
1891, . . . . .	8	768,634	+67,307	+9.60
1892, . . . . .	8	791,258	+22,624	+2.94
1893, . . . . .	8	594,580	—196,669	—24.86
<i>Fancy Articles, etc.</i>				
1889, . . . . .	4	\$95,315	-	-
1890, . . . . .	4	109,529	+\$14,214	+14.91
1891, . . . . .	4	122,392	+12,863	+11.74
1892, . . . . .	4	127,641	+5,249	+4.29
1893, . . . . .	4	113,810	—13,831	—10.84
<i>Fertilizers.</i>				
1889, . . . . .	3	\$83,400	-	-
1890, . . . . .	3	60,690	—\$22,710	—27.23
1891, . . . . .	3	59,170	—1,520	—2.50
1892, . . . . .	3	62,576	+3,406	+5.76
1893, . . . . .	3	78,304	+15,728	+25.13
<i>Fine Arts and Taxidermy.</i>				
1889, . . . . .	3	\$13,168	-	-
1890, . . . . .	3	13,700	+\$532	+4.04
1891, . . . . .	3	14,000	+300	+2.19
1892, . . . . .	3	19,800	+5,800	+41.43
1893, . . . . .	3	23,498	+3,698	+18.68
<i>Flax, Hemp, Jute, and Linen Goods.</i>				
1889, . . . . .	7	\$2,587,253	-	-
1890, . . . . .	7	3,046,540	+\$459,287	+17.75
1891, . . . . .	7	3,031,031	—15,509	—0.51
1892, . . . . .	7	2,929,281	—101,750	—3.36
1893, . . . . .	7	3,059,759	+130,478	+4.45
<i>Food Preparations.</i>				
1889, . . . . .	168	\$42,907,680	-	-
1890, . . . . .	168	44,700,020	+\$1,792,340	+4.18
1891, . . . . .	168	47,374,324	+2,674,304	+5.98
1892, . . . . .	168	56,445,464	+9,071,140	+19.15
1893, . . . . .	168	54,580,134	—1,865,330	—3.30

## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (-), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent ages
<i>Furniture.</i>				
1889, . . . . .	80	\$6,304,185	-	-
1890, . . . . .	80	6,557,159	+\$252,974	+4.01
1891, . . . . .	80	6,837,670	+280,511	+4.28
1892, . . . . .	80	7,318,383	+480,713	+7.03
1893, . . . . .	80	6,384,241	-934,142	-12.76
<i>Glass.</i>				
1889, . . . . .	6	\$430,072	-	-
1890, . . . . .	6	422,975	-\$7,097	-1.65
1891, . . . . .	6	485,681	+62,706	+14.82
1892, . . . . .	6	508,335	+22,654	+4.66
1893, . . . . .	6	403,925	-104,410	-20.54
<i>Glue, Isinglass, and Starch.</i>				
1889, . . . . .	11	\$756,022	-	-
1890, . . . . .	11	892,266	+\$136,244	+18.02
1891, . . . . .	11	790,419	-101,847	-11.41
1892, . . . . .	11	819,597	+29,178	+3.69
1893, . . . . .	11	903,653	+84,056	+10.26
<i>Hair Work (Animal and Human).</i>				
1889, . . . . .	4	\$372,080	-	-
1890, . . . . .	4	471,000	+\$98,920	+26.59
1891, . . . . .	4	477,100	+6,100	+1.30
1892, . . . . .	4	587,248	+110,148	+23.09
1893, . . . . .	4	436,350	-150,898	-25.70
<i>Hosiery and Knit Goods.</i>				
1889, . . . . .	23	\$3,886,393	-	-
1890, . . . . .	23	4,000,415	+\$114,022	+2.93
1891, . . . . .	23	5,087,581	+1,087,166	+27.18
1892, . . . . .	23	5,293,579	+205,998	+4.05
1893, . . . . .	23	4,522,211	-771,368	-14.57
<i>Ink, Mucilage, and Paste.</i>				
1889, . . . . .	7	\$331,570	-	-
1890, . . . . .	7	384,698	+\$53,128	+16.02
1891, . . . . .	7	418,883	+34,185	+8.39
1892, . . . . .	7	416,363	-2,520	-0.60
1893, . . . . .	7	399,397	-16,966	-4.07
<i>Ivory, Bone, Shell, and Horn Goods, etc.</i>				
1889, . . . . .	9	\$380,137	-	-
1890, . . . . .	9	390,111	+\$9,974	+2.62
1891, . . . . .	9	438,701	+48,590	+12.46
1892, . . . . .	9	416,410	-22,291	-5.03
1893, . . . . .	9	371,410	-45,000	-10.81

## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Establishments Considered	Value of Goods Made and Work Done	INCREASE (+), OR DECREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percentages
<i>Leather.</i>				
1889, . . . . .	96	\$13,152,994	-	-
1890, . . . . .	96	13,749,172	+\$596,178	+4.53
1891, . . . . .	96	12,578,353	-1,170,819	-8.55
1892, . . . . .	96	14,085,589	+1,507,236	+11.98
1893, . . . . .	96	11,873,432	-2,212,157	-15.71
<i>Liquors and Beverages (Not Spirituous).</i>				
1889, . . . . .	6	\$238,241	-	-
1890, . . . . .	6	272,154	+\$33,913	+14.23
1891, . . . . .	6	280,134	+7,980	+2.93
1892, . . . . .	6	300,622	+20,488	+7.31
1893, . . . . .	6	272,162	-28,460	-9.47
<i>Liquors: Malt, Distilled, and Fermented.</i>				
1889, . . . . .	35	\$6,152,346	-	-
1890, . . . . .	35	6,247,274	+\$94,928	+1.54
1891, . . . . .	35	6,697,342	+450,068	+7.20
1892, . . . . .	35	6,720,003	+22,661	+0.34
1893, . . . . .	35	6,868,364	+148,361	+2.21
<i>Lumber.</i>				
1889, . . . . .	12	\$1,406,597	-	-
1890, . . . . .	12	1,891,849	+\$485,252	+34.50
1891, . . . . .	12	1,930,579	+38,730	+2.05
1892, . . . . .	12	2,295,981	+365,402	+18.93
1893, . . . . .	12	1,987,279	-308,702	-13.45
<i>Machines and Machinery.</i>				
1889, . . . . .	155	\$22,571,635	-	-
1890, . . . . .	155	22,261,718	-\$309,917	-1.37
1891, . . . . .	155	21,999,656	-262,062	-1.18
1892, . . . . .	155	22,972,745	+973,089	+4.42
1893, . . . . .	155	21,419,646	-1,553,099	-6.76
<i>Metals and Metallic Goods.</i>				
1889, . . . . .	180	\$18,893,683	-	-
1890, . . . . .	180	20,725,477	+\$1,831,794	+9.70
1891, . . . . .	180	20,357,854	-367,623	-1.77
1892, . . . . .	180	21,126,293	+768,439	+3.77
1893, . . . . .	180	18,381,177	-2,745,116	-12.99
<i>Mixed Textiles.</i>				
1889, . . . . .	11	\$1,547,305	-	-
1890, . . . . .	11	1,690,942	+\$143,637	+9.28
1891, . . . . .	11	1,671,547	-19,395	-1.15
1892, . . . . .	11	1,726,195	+54,648	+3.27
1893, . . . . .	11	1,543,869	-182,326	-10.56

## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Establishments Considered	Value of Goods Made and Work Done	INCREASE (+), OR DECREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percentages
<i>Models, Lasts, and Patterns.</i>				
1889, . . . . .	12	\$402,040	-	-
1890, . . . . .	12	465,428	+\$63,388	+15.77
1891, . . . . .	12	437,423	-28,005	-6.02
1892, . . . . .	12	493,185	+55,762	+12.75
1893, . . . . .	12	434,524	-58,661	-11.89
<i>Musical Instruments and Materials.</i>				
1889, . . . . .	37	\$4,707,110	-	-
1890, . . . . .	37	5,224,733	+\$517,623	+11.00
1891, . . . . .	37	5,074,694	-150,039	-2.87
1892, . . . . .	37	5,333,130	+258,436	+5.09
1893, . . . . .	37	4,205,058	-1,128,072	-21.15
<i>Oils and Illuminating Fluids.</i>				
1889, . . . . .	9	\$1,246,819	-	-
1890, . . . . .	9	1,181,660	-\$65,159	-5.23
1891, . . . . .	9	1,308,633	+126,973	+10.75
1892, . . . . .	9	1,048,102	-260,531	-19.91
1893, . . . . .	9	960,365	-87,737	-8.37
<i>Paints, Colors, and Crude Chemicals.</i>				
1889, . . . . .	14	\$856,879	-	-
1890, . . . . .	14	928,426	+\$71,547	+8.35
1891, . . . . .	14	877,737	-50,689	-5.46
1892, . . . . .	14	883,994	+6,257	+0.71
1893, . . . . .	14	873,053	-10,941	-1.24
<i>Paper and Paper Goods.</i>				
1889, . . . . .	73	\$19,154,210	-	-
1890, . . . . .	73	19,143,448	-\$10,762	-0.06
1891, . . . . .	73	19,817,103	+673,655	+3.52
1892, . . . . .	73	21,718,266	+1,901,163	+9.59
1893, . . . . .	73	19,126,115	-2,592,151	-11.94
<i>Photographs and Photographic Materials.</i>				
1889, . . . . .	6	\$199,313	-	-
1890, . . . . .	6	221,515	+\$22,202	+11.14
1891, . . . . .	6	215,256	-6,259	-2.83
1892, . . . . .	6	220,356	+5,100	+2.37
1893, . . . . .	6	149,246	-71,110	-32.27
<i>Polishes and Dressing.</i>				
1889, . . . . .	15	\$1,192,494	-	-
1890, . . . . .	15	1,289,049	+\$96,555	+8.10
1891, . . . . .	15	1,390,477	+101,428	+7.87
1892, . . . . .	15	1,438,633	+48,156	+3.46
1893, . . . . .	15	1,229,195	-209,438	-14.56

## GOODS MADE: BY INDUSTRIES — Continued.

## COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.

## FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (-), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Printing, Publishing, and Bookbinding.</i>				
1889, . . . . .	18	\$1,748,530	-	-
1890, . . . . .	18	1,723,306	-\$25,224	-1.44
1891, . . . . .	18	1,702,669	-20,637	-1.20
1892, . . . . .	18	1,756,331	+53,662	+3.15
1893, . . . . .	18	1,657,101	-99,230	-5.65
<i>Print Works, Dye Works, and Bleacheries.</i>				
1889, . . . . .	24	\$17,782,398	-	-
1890, . . . . .	24	18,573,172	+\$790,774	+4.45
1891, . . . . .	24	17,248,650	-1,324,522	-7.13
1892, . . . . .	24	19,883,880	+2,635,230	+15.28
1893, . . . . .	24	18,587,383	-1,296,497	-6.52
<i>Railroad Construction and Equipment.</i>				
1889, . . . . .	14	\$4,451,469	-	-
1890, . . . . .	14	3,905,124	-\$546,345	-12.27
1891, . . . . .	14	3,959,211	+54,087	+1.39
1892, . . . . .	14	4,275,835	+316,624	+8.00
1893, . . . . .	14	7,255,656	+2,979,821	+69.69
<i>Rubber and Elastic Goods.</i>				
1889, . . . . .	22	\$10,492,573	-	-
1890, . . . . .	22	11,288,793	+\$796,220	+7.59
1891, . . . . .	22	11,761,878	+473,085	+4.19
1892, . . . . .	22	12,817,903	+1,056,025	+8.98
1893, . . . . .	22	13,076,414	+258,511	+2.02
<i>Saddlery and Harness.</i>				
1889, . . . . .	8	\$224,821	-	-
1890, . . . . .	8	221,886	-\$2,935	-1.31
1891, . . . . .	8	240,558	+18,672	+8.42
1892, . . . . .	8	260,810	+20,252	+8.42
1893, . . . . .	8	195,490	-65,320	-25.05
<i>Scientific Instruments and Appliances.</i>				
1889, . . . . .	8	\$978,672	-	-
1890, . . . . .	8	1,185,543	+\$206,871	+21.14
1891, . . . . .	8	1,366,589	+181,046	+15.27
1892, . . . . .	8	1,516,906	+150,377	+11.00
1893, . . . . .	8	1,355,116	-161,850	-10.67
<i>Shipbuilding.</i>				
1889, . . . . .	14	\$752,535	-	-
1890, . . . . .	14	868,835	+\$116,300	+15.45
1891, . . . . .	14	1,025,317	+156,482	+18.01
1892, . . . . .	14	855,610	-169,707	-16.55
1893, . . . . .	14	759,888	-95,722	-11.19

## GOODS MADE: BY INDUSTRIES — Continued.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889 — 1893 — Continued.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Silk and Silk Goods.</i>				
1889, . . . . .	9	\$4,488,421	-	-
1890, . . . . .	9	4,461,791	—\$26,630	—0.59
1891, . . . . .	9	4,510,716	+48,925	+1.10
1892, . . . . .	9	4,751,597	+240,881	+5.34
1893, . . . . .	9	3,723,322	—1,028,275	—21.64
<i>Sporting and Athletic Goods.</i>				
1889, . . . . .	6	\$197,805	-	-
1890, . . . . .	6	233,485	+\$35,680	+18.04
1891, . . . . .	6	259,026	+25,541	+10.94
1892, . . . . .	6	274,765	+15,739	+6.08
1893, . . . . .	6	290,050	+15,285	+5.56
<i>Stone.</i>				
1889, . . . . .	61	\$2,849,650	-	-
1890, . . . . .	61	2,640,407	—\$209,243	—7.34
1891, . . . . .	61	2,848,704	+208,297	+7.89
1892, . . . . .	61	2,770,968	—77,736	—2.73
1893, . . . . .	61	2,737,975	—32,993	—1.19
<i>Straw and Palm Leaf Goods.</i>				
1889, . . . . .	16	\$3,765,404	-	-
1890, . . . . .	16	4,053,892	+\$288,488	+7.66
1891, . . . . .	16	4,303,930	+250,038	+6.17
1892, . . . . .	16	4,230,846	—73,084	—1.70
1893, . . . . .	16	4,216,503	—14,343	—0.34
<i>Tallow, Candles, Soap, and Grease.</i>				
1889, . . . . .	37	\$3,149,232	-	-
1890, . . . . .	37	3,308,497	+\$159,265	+5.06
1891, . . . . .	37	3,151,919	—156,578	—4.73
1892, . . . . .	37	3,264,909	+112,990	+3.58
1893, . . . . .	37	3,242,105	—22,804	—0.70
<i>Tobacco, Snuff, and Cigars.</i>				
1889, . . . . .	31	\$1,931,114	-	-
1890, . . . . .	31	2,341,658	+\$410,544	+21.26
1891, . . . . .	31	2,432,265	+90,607	+3.87
1892, . . . . .	31	2,911,126	+478,861	+19.69
1893, . . . . .	31	2,891,868	—19,258	—0.66
<i>Toys and Games (Children's).</i>				
1889, . . . . .	7	\$453,067	-	-
1890, . . . . .	7	477,306	+\$24,239	+5.35
1891, . . . . .	7	515,003	+37,697	+7.90
1892, . . . . .	7	589,240	+74,237	+14.41
1893, . . . . .	7	553,459	—35,781	—6.07



## GOODS MADE: BY INDUSTRIES — Concluded.

COMPARISON OF GOODS MADE. SAME ESTABLISHMENTS.  
FOR THE FIVE YEARS 1889—1893—Concluded.

INDUSTRIES, AND YEARS.	Number of Estab- lishments Con- sidered	Value of Goods Made and Work Done	INCREASE (+), OR DE- CREASE (—), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percent- ages
<i>Trunks and Valises.</i>				
1889, . . . . .	7	\$211,077	-	-
1890, . . . . .	7	265,062	+\$53,985	+25.58
1891, . . . . .	7	269,465	+4,403	+1.66
1892, . . . . .	7	295,119	+25,654	+9.52
1893, . . . . .	7	240,018	-55,101	-18.67
<i>Whips, Lashes, and Stocks.</i>				
1889, . . . . .	5	\$674,264	-	-
1890, . . . . .	5	778,154	+\$103,890	+15.41
1891, . . . . .	5	860,543	+82,389	+10.59
1892, . . . . .	5	888,496	+27,953	+3.25
1893, . . . . .	5	847,088	-41,408	-4.66
<i>Wooden Goods.</i>				
1889, . . . . .	65	\$3,093,947	-	-
1890, . . . . .	65	3,303,422	+\$209,475	+6.77
1891, . . . . .	65	3,533,770	+230,348	+6.97
1892, . . . . .	65	3,483,334	-50,436	-1.43
1893, . . . . .	65	3,306,342	-176,992	-5.08
<i>Woollen Goods.</i>				
1889, . . . . .	98	\$26,713,548	-	-
1890, . . . . .	98	26,298,889	-\$414,659	-1.55
1891, . . . . .	98	29,271,278	+2,972,389	+11.30
1892, . . . . .	98	30,061,759	+790,481	+2.70
1893, . . . . .	98	24,855,894	-5,205,865	-17.32
<i>Worsted Goods.</i>				
1889, . . . . .	16	\$14,068,481	-	-
1890, . . . . .	16	14,620,211	+\$551,730	+3.92
1891, . . . . .	16	15,640,025	+1,019,814	+6.98
1892, . . . . .	16	16,109,732	+469,707	+3.00
1893, . . . . .	16	14,625,069	-1,484,663	-9.22
<b>TOTALS.</b>				
1889, . . . . .	2,472	\$465,447,602	-	-
1890, . . . . .	2,472	496,024,255	+\$30,576,653	+6.57
1891, . . . . .	2,472	501,768,326	+5,744,071	+1.16
1892, . . . . .	2,472	530,131,769	+28,363,443	+5.65
1893, . . . . .	2,472	484,288,854	-45,842,915	-8.65



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## PERSONS EMPLOYED: BY INDUSTRIES.

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## SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, by the terms "Periods of employment of smallest number" and "Periods of employment of greatest number" are meant those times, *as regards aggregate number of persons employed*, when the smallest or greatest number, respectively, was employed. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

### AGGREGATES — 1892.

INDUSTRIES.	Number of Estab- lishments Con- sidered	Aggregate Average Number of Persons Employed	AGGREGATES OF PERSONS EMPLOYED AT PERIODS OF EMPLOYMENT OF —		Excess of Greatest over Smallest Number
			Smallest Number	Greatest Number	
Agricultural implements, . . . . .	11	662	586	745	159
Arms and ammunition, . . . . .	13	2,131	2,032	2,336	304
Artisans' tools, . . . . .	65	1,809	1,680	1,936	256
Awnings, sails, tents, etc., . . . . .	39	193	130	296	166
Boots and shoes, . . . . .	712	48,859	40,761	56,611	15,850
Boxes (paper and wooden), . . . . .	136	3,400	2,993	3,836	843
Brick, tiles, and sewer pipe, . . . . .	49	1,309	698	1,933	1,235
Brooms, brushes, and mops, . . . . .	21	871	804	961	157
Burial cases, caskets, coffins, etc., . . . . .	6	185	181	188	7
Buttons and dress trimmings, . . . . .	19	1,253	1,050	1,442	392
Carpetings, . . . . .	11	4,703	4,434	4,919	485
Carriages and wagons, . . . . .	132	2,409	1,935	2,936	1,001
Cement, kaolin, lime, and plaster, . . . . .	7	96	78	119	41
Chemical preparations (compounded), . . . . .	10	322	285	359	74
Clocks, watches, and jewelry, . . . . .	97	3,683	3,172	4,234	1,062
Clothing, . . . . .	135	9,241	7,576	10,718	3,142
Cooking, lighting, and heating apparatus, . . . . .	36	2,256	1,773	2,463	690
Cordage and twine, . . . . .	27	3,415	2,578	4,111	1,533
Corks, bungs, and taps, . . . . .	3	37	34	39	5
Cotton goods, . . . . .	149	73,748	70,886	76,442	5,556
Cotton, woollen, and other textiles, . . . . .	3	2,270	2,007	2,472	465
Crayons, pencils, crucibles, etc., . . . . .	3	21	16	27	11
Drugs and medicines, . . . . .	23	466	386	538	152
Dyestuffs, . . . . .	5	164	134	185	51
Earthen, plaster, and stone ware, . . . . .	7	302	208	369	161
Electrical apparatus and appliances, . . . . .	15	4,089	3,632	4,478	846
Electroplating, . . . . .	9	81	72	87	15
Emery and sand paper and cloth, etc., . . . . .	10	294	271	319	48
Fancy articles, etc., . . . . .	5	105	98	115	17
Fertilizers, . . . . .	5	33	29	35	6

## PERSONS EMPLOYED: BY INDUSTRIES—Continued.

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS  
EMPLOYED. AGGREGATES—1892—Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	Aggregate Average Number of Persons Employed	AGGREGATES OF PERSONS EMPLOYED AT PERIODS OF EMPLOYMENT OF—		Excess of <i>Greatest</i> over <i>Smallest</i> Number
			<i>Smallest</i> Number	<i>Greatest</i> Number	
Fine arts and taxidermy, . . . . .	3	12	8	17	9
Flax, hemp, jute, and linen goods, . . .	7	2,061	1,832	2,250	418
Food preparations, . . . . .	300	8,319	6,611	11,185	4,574
Furniture, . . . . .	121	4,095	3,568	4,617	1,049
Glass, . . . . .	8	501	422	561	139
Glue, isinglass, and starch, . . . . .	18	438	393	661	268
Hair work (animal and human), . . . .	9	199	172	224	52
Hose: rubber, linen, etc., . . . . .	3	240	200	293	93
Hosiery and knit goods, . . . . .	42	4,711	3,820	5,771	1,951
Ink, mucilage, and paste, . . . . .	9	113	64	138	74
Ivory, bone, shell, and horn goods, etc., .	10	434	381	501	120
Leather, . . . . .	148	5,918	4,353	7,038	2,185
Liquors and beverages (not spirituous), .	23	265	207	362	155
Liquors: malt, distilled, and fermented,	53	1,206	1,065	1,411	346
Lumber, . . . . .	21	821	694	932	238
Machines and machinery, . . . . .	335	17,979	15,597	20,495	4,898
Metals and metallic goods, . . . . .	341	14,356	12,365	16,058	3,693
Mixed textiles, . . . . .	13	772	708	820	112
Models, lasts, and patterns, . . . . .	46	420	366	467	101
Musical instruments and materials, . . .	54	3,352	3,078	3,539	461
Oils and illuminating fluids, . . . . .	10	150	122	202	80
Paints, colors, and crude chemicals, . .	20	226	191	249	58
Paper and paper goods, . . . . .	98	10,085	9,197	10,724	1,527
Perfumes, toilet articles, etc., . . . .	5	43	37	48	11
Photographs and photographic materials,	17	157	131	174	43
Polishes and dressing, . . . . .	29	286	185	331	146
Printing, publishing, and bookbinding, .	34	2,194	2,038	2,379	341
Print works, dye works, and bleacheries,	44	6,014	5,371	6,506	1,135
Railroad construction and equipment, .	14	2,971	2,557	3,288	731
Rubber and elastic goods, . . . . .	34	6,021	5,353	6,639	1,286
Saddlery and harness, . . . . .	38	258	233	284	51
Scientific instruments and appliances, .	15	1,195	1,024	1,351	327
Shipbuilding, . . . . .	56	665	400	1,011	611
Silk and silk goods, . . . . .	12	2,343	2,185	2,495	310
Sporting and athletic goods, . . . . .	7	313	186	420	234
Stone, . . . . .	175	3,424	1,914	5,039	3,125
Straw and palm leaf goods, . . . . .	20	2,373	583	4,022	3,439
Tallow, candles, soap, and grease, . .	62	708	617	790	173
Tobacco, snuff, and cigars, . . . . .	42	1,784	1,254	2,082	828
Toys and games (children's), . . . . .	8	524	346	683	337
Trunks and valises, . . . . .	7	114	73	135	62
Whips, lashes, and stocks, . . . . .	10	436	406	461	55
Wooden goods, . . . . .	163	3,199	2,521	3,926	1,405
Woollen goods, . . . . .	125	17,100	15,204	18,313	3,109
Worsted goods, . . . . .	20	8,996	8,117	9,813	1,696
ALL INDUSTRIES, . . . . .	4,397	306,203	267,168	344,004	76,836

## SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, by the terms "Periods of employment of smallest number" and "Periods of employment of greatest number" are meant those times, *as regards aggregate number of persons employed*, when the smallest or greatest number, respectively, was employed. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

### AGGREGATES — 1893.

INDUSTRIES.	Number of Estab- lishments Con- sidered	Aggregate Average Number of Persons Employed	AGGREGATES OF PERSONS EMPLOYED AT PERIODS OF EMPLOYMENT OF —		Excess of Greatest over Smallest Number
			Smallest Number	Greatest Number	
Agricultural implements, . . . . .	11	636	540	707	167
Arms and ammunition, . . . . .	13	2,006	1,565	2,343	778
Artisans' tools, . . . . .	65	1,670	1,315	1,934	619
Awnings, sails, tents, etc., . . . . .	39	189	123	284	161
Boots and shoes, . . . . .	712	45,389	34,039	55,665	21,626
Boxes (paper and wooden), . . . . .	136	3,247	2,580	3,906	1,326
Brick, tiles, and sewer pipe, . . . . .	49	1,229	608	2,001	1,393
Brooms, brushes, and mops, . . . . .	21	849	713	956	243
Burial cases, caskets, coffins, etc., . . . . .	6	188	172	201	29
Buttons and dress trimmings, . . . . .	19	1,090	683	1,460	777
Carpetings, . . . . .	11	4,335	1,917	5,031	3,114
Carriages and wagons, . . . . .	132	2,128	1,460	2,808	1,348
Cement, kaolin, lime, and plaster, . . . . .	7	93	64	111	47
Chemical preparations (compounded), . . . . .	10	304	251	342	91
Clocks, watches, and jewelry, . . . . .	97	3,372	2,533	4,105	1,572
Clothing, . . . . .	135	7,544	5,502	9,230	3,728
Cooking, lighting, and heating apparatus, . . . . .	36	2,076	1,410	2,443	1,033
Cordage and twine, . . . . .	27	3,286	2,695	3,820	1,125
Corks, bungs, and taps, . . . . .	3	32	26	38	12
Cotton goods, . . . . .	149	73,540	61,785	78,949	17,164
Cotton, woollen, and other textiles, . . . . .	3	1,917	352	2,271	1,919
Crayons, pencils, crucibles, etc., . . . . .	3	18	15	22	7
Drugs and medicines, . . . . .	23	440	367	505	138
Dyestuffs, . . . . .	5	121	87	142	55
Earthen, plaster, and stone ware, . . . . .	7	322	226	416	190
Electrical apparatus and appliances, . . . . .	15	3,643	2,340	4,622	2,282
Electroplating, . . . . .	9	79	60	102	42
Emery and sand paper and cloth, etc., . . . . .	10	288	185	370	185
Fancy articles, etc., . . . . .	5	96	88	105	17
Fertilizers, . . . . .	5	31	23	36	13



## PERSONS EMPLOYED: BY INDUSTRIES — Continued.

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS  
EMPLOYED. AGGREGATES — 1893 — Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	Aggregate Average Number of Persons Employed	AGGREGATES OF PERSONS EMPLOYED AT PERIODS OF EMPLOYMENT OF —		Excess of Greatest over Smallest Number
			Smallest Number	Greatest Number	
Fine arts and taxidermy, . . . . .	3	12	10	18	8
Flax, hemp, jute, and linen goods, . . .	7	2,141	1,951	2,294	343
Food preparations, . . . . .	300	7,801	5,932	10,721	4,789
Furniture, . . . . .	121	3,633	2,901	4,270	1,369
Glass, . . . . .	8	343	248	432	184
Glue, isinglass, and starch, . . . . .	18	423	355	629	274
Hair work (animal and human), . . . .	9	183	157	213	56
Hose: rubber, linen, etc., . . . . .	3	283	210	363	153
Hosiery and knit goods, . . . . .	42	4,757	3,685	5,733	2,048
Ink, mucilage, and paste, . . . . .	9	100	62	140	78
Ivory, bone, shell, and horn goods, etc., .	10	392	282	493	211
Leather, . . . . .	148	5,602	3,783	7,320	3,537
Liquors and beverages (not spirituous), .	23	247	181	373	192
Liquors: malt, distilled, and fermented, .	53	1,248	1,099	1,461	362
Lumber, . . . . .	21	870	706	1,041	335
Machines and machinery, . . . . .	335	17,495	12,621	21,216	8,595
Metals and metallic goods, . . . . .	341	13,313	10,336	15,611	5,275
Mixed textiles, . . . . .	13	760	551	868	317
Models, lasts, and patterns, . . . . .	46	417	341	488	147
Musical instruments and materials, . . .	54	2,726	1,755	3,307	1,552
Oils and illuminating fluids, . . . . .	10	140	104	227	123
Paints, colors, and crude chemicals, . .	20	221	180	264	84
Paper and paper goods, . . . . .	98	9,658	8,015	10,754	2,739
Perfumes, toilet articles, etc., . . . .	5	39	31	49	18
Photographs and photographic materials,	17	123	104	146	42
Polishes and dressing, . . . . .	29	279	175	355	180
Printing, publishing, and bookbinding, .	34	2,141	1,995	2,315	320
Print works, dye works, and bleacheries,	44	5,809	3,583	6,654	3,071
Railroad construction and equipment, . .	14	3,715	3,004	4,410	1,406
Rubber and elastic goods, . . . . .	34	6,161	5,263	6,883	1,570
Saddlery and harness, . . . . .	38	206	168	242	74
Scientific instruments and appliances, . .	15	1,076	798	1,270	472
Shipbuilding, . . . . .	56	672	408	1,076	668
Silk and silk goods, . . . . .	12	2,233	1,851	2,518	667
Sporting and athletic goods, . . . . .	7	283	155	364	209
Stone, . . . . .	175	3,894	2,620	5,103	2,533
Straw and palm leaf goods, . . . . .	20	2,335	451	4,079	3,628
Tallow, candles, soap, and grease, . . .	62	693	581	778	197
Tobacco, snuff, and cigars, . . . . .	42	1,710	1,275	2,118	843
Toys and games (children's), . . . . .	8	495	301	641	340
Trunks and valises, . . . . .	7	99	55	121	66
Whips, lashes, and stocks, . . . . .	10	325	106	466	360
Wooden goods, . . . . .	168	3,052	2,326	3,838	1,512
Woollen goods, . . . . .	125	15,857	11,240	18,581	7,341
Worsted goods, . . . . .	20	9,025	6,791	10,270	3,479
ALL INDUSTRIES, . . . . .	4,397	293,169	222,370	345,388	123,018

# SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED : BY INDUSTRIES.

[In this table, averages for each establishment are given. These have been arrived at by dividing the aggregates given in the table on pages 38 and 39 by the number of establishments. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

## AVERAGES — 1892.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGES			
		NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT			
		Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number
Agricultural implements, . . . .	11	60	53	68	15
Arms and ammunition, . . . .	13	164	156	180	24
Artisans' tools, . . . .	65	23	26	30	4
Awnings, sails, tents, etc., . . . .	39	5	3	8	5
Boots and shoes, . . . .	712	69	57	80	23
Boxes (paper and wooden), . . . .	136	25	22	28	6
Brick, tiles, and sewer pipe, . . . .	49	27	14	40	26
Brooms, brushes, and mops, . . . .	21	41	38	46	8
Burial cases, caskets, coffins, etc., . . . .	6	31	30	31	1
Buttons and dress trimmings, . . . .	19	66	55	76	21
Carpetings, . . . .	11	423	403	447	44
Carriages and wagons, . . . .	132	18	15	22	7
Cement, kaolin, lime, and plaster, . . . .	7	14	11	17	6
Chemical preparations (compounded), . . . .	10	32	29	36	7
Clocks, watches, and jewelry, . . . .	97	33	33	44	11
Clothing, . . . .	135	63	56	79	23
Cooking, lighting, and heating apparatus, . . . .	36	63	49	63	19
Cordage and twine, . . . .	27	126	95	152	57
Corks, bungs, and taps, . . . .	3	12	11	13	2
Cotton goods, . . . .	149	495	476	513	37
Cotton, woollen, and other textiles, . . . .	3	757	609	824	155
Crayons, pencils, crucibles, etc., . . . .	3	7	5	9	4
Drugs and medicines, . . . .	23	20	17	23	6
Dyestuff, . . . .	5	33	27	37	10
Earthen, plaster, and stone ware, . . . .	7	43	30	53	23
Electrical apparatus and appliances, . . . .	15	273	242	299	57
Electroplating, . . . .	9	9	8	10	2
Emery and sand paper and cloth, etc., . . . .	10	29	27	32	5
Fancy articles, etc., . . . .	5	21	20	23	3
Fertilizers, . . . .	5	7	6	7	1
Fine arts and taxidermy, . . . .	3	4	3	6	3

## PERSONS EMPLOYED: BY INDUSTRIES — Continued.

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS  
EMPLOYED. AVERAGES — 1892 — Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGES			
		NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT			
		Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number
Flax, hemp, jute, and linen goods, . . . . .	7	294	262	321	59
Food preparations, . . . . .	300	28	22	37	15
Furniture, . . . . .	121	34	29	38	9
Glass, . . . . .	8	63	53	70	17
Glue, isinglass, and starch, . . . . .	18	24	22	37	15
Hair work (animal and human), . . . . .	9	22	19	25	6
Hose: rubber, linen, etc., . . . . .	3	80	67	98	31
Hosiery and knit goods, . . . . .	42	112	91	137	46
Ink, mucilage, and paste, . . . . .	9	13	7	15	8
Ivory, bone, shell, and horn goods, etc., . . . . .	10	43	38	50	12
Leather, . . . . .	148	40	33	48	15
Liquors and beverages (not spirituous), . . . . .	23	12	9	16	7
Liquors: malt, distilled, and fermented, . . . . .	53	23	20	27	7
Lumber, . . . . .	21	39	33	44	11
Machines and machinery, . . . . .	335	54	47	61	14
Metals and metallic goods, . . . . .	341	42	36	47	11
Mixed textiles, . . . . .	13	59	54	63	9
Models, lasts, and patterns, . . . . .	46	9	8	10	2
Musical instruments and materials, . . . . .	54	62	57	66	9
Oils and illuminating fluids, . . . . .	10	15	12	20	8
Paints, colors, and crude chemicals, . . . . .	20	11	10	12	2
Paper and paper goods, . . . . .	98	103	94	109	15
Perfumes, toilet articles, etc., . . . . .	5	9	7	10	3
Photographs and photographic materials, . . . . .	17	9	8	10	2
Polishes and dressing, . . . . .	29	10	6	11	5
Printing, publishing, and bookbinding, . . . . .	34	65	60	70	10
Print works, dye works, and bleacheries, . . . . .	44	137	122	148	26
Railroad construction and equipment, . . . . .	14	212	183	235	52
Rubber and elastic goods, . . . . .	34	177	157	195	38
Saddlery and harness, . . . . .	38	7	6	7	1
Scientific instruments and appliances, . . . . .	15	80	68	90	22
Shipbuilding, . . . . .	56	12	7	18	11
Silk and silk goods, . . . . .	12	195	182	208	26
Sporting and athletic goods, . . . . .	7	45	27	60	33
Stone, . . . . .	175	20	11	29	18
Straw and palm leaf goods, . . . . .	20	119	29	201	172
Tallow, candles, soap, and grease, . . . . .	62	11	10	13	3
Tobacco, snuff, and cigars, . . . . .	42	42	30	50	20
Toys and games (children's), . . . . .	8	66	43	85	42
Trunks and valises, . . . . .	7	16	10	19	9
Whips, lashes, and stocks, . . . . .	10	44	41	46	5
Wooden goods, . . . . .	168	19	15	23	8
Woollen goods, . . . . .	125	137	122	147	25
Worsted goods, . . . . .	20	450	406	491	85
ALL INDUSTRIES, . . . . .	4,397	70	61	78	17

## SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, averages for each establishment are given. These have been arrived at by dividing the aggregates given in the table on pages 40 and 41 by the number of establishments. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

### AVERAGES — 1893.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGES			
		NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT			
		Average Number	<i>Smallest</i> Number	<i>Greatest</i> Number	Excess of <i>Greatest</i> over <i>Smallest</i> Number
Agricultural implements, . . . .	11	58	49	64	15
Arms and ammunition, . . . .	13	154	120	180	60
Artisans' tools, . . . .	65	26	20	30	10
Awnings, sails, tents, etc., . . . .	39	5	3	7	4
Boots and shoes, . . . .	712	64	48	78	30
Boxes (paper and wooden), . . . .	136	24	19	29	10
Brick, tiles, and sewer pipe, . . . .	49	25	12	41	29
Brooms, brushes, and mops, . . . .	21	40	34	46	12
Burial cases, caskets, coffins, etc., . . . .	6	31	29	34	5
Buttons and dress trimmings, . . . .	19	57	36	77	41
Carpetings, . . . .	11	394	174	457	283
Carriages and wagons, . . . .	132	16	11	21	10
Cement, kaolin, lime, and plaster, . . . .	7	13	9	16	7
Chemical preparations (compounded), . . . .	10	30	25	34	9
Clocks, watches, and jewelry, . . . .	97	35	26	42	16
Clothing, . . . .	135	56	41	68	27
Cooking, lighting, and heating apparatus, . . . .	36	58	39	68	29
Cordage and twine, . . . .	27	122	100	141	41
Corks, bungs, and taps, . . . .	3	11	9	13	4
Cotton goods, . . . .	149	494	415	530	115
Cotton, woollen, and other textiles, . . . .	3	639	117	757	640
Crayons, pencils, crucibles, etc., . . . .	3	6	5	7	2
Drugs and medicines, . . . .	23	19	16	22	6
Dyestuffs, . . . .	5	24	17	28	11
Earthen, plaster, and stone ware, . . . .	7	46	32	59	27
Electrical apparatus and appliances, . . . .	15	243	156	308	152
Electroplating, . . . .	9	9	7	11	4
Emery and sand paper and cloth, etc., . . . .	10	29	19	37	18
Fancy articles, etc., . . . .	5	19	18	21	3
Fertilizers, . . . .	5	6	5	7	2
Fine arts and taxidermy, . . . .	3	4	3	6	3

## PERSONS EMPLOYED: BY INDUSTRIES — Continued.

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS  
EMPLOYED. AVERAGES — 1893 — Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGES			
		NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT			
		Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number
Flax, hemp, jute, and linen goods, . . .	7	306	279	323	49
Food preparations, . . . . .	300	26	20	36	16
Furniture, . . . . .	121	30	24	35	11
Glass, . . . . .	8	44	31	54	23
Glue, isinglass, and starch, . . . . .	18	24	20	35	15
Hair work (animal and human), . . . .	9	20	17	24	7
Hose: rubber, linen, etc., . . . . .	3	94	70	121	51
Hosiery and knit goods, . . . . .	42	113	88	137	49
Ink, mucilage, and paste, . . . . .	9	12	7	16	9
Ivory, bone, shell, and horn goods, etc., .	10	39	28	49	21
Leather, . . . . .	148	38	26	49	23
Liquors and beverages (not spirituous), .	23	11	8	16	8
Liquors: malt, distilled, and fermented, .	53	24	21	28	7
Lumber, . . . . .	21	41	34	50	16
Machines and machinery, . . . . .	335	52	38	63	25
Metals and metallic goods, . . . . .	341	39	30	46	16
Mixed textiles, . . . . .	13	58	42	67	25
Models, lasts, and patterns, . . . . .	46	9	7	11	4
Musical instruments and materials, . . .	54	50	33	61	28
Oils and illuminating fluids, . . . . .	10	14	10	23	13
Paints, colors, and crude chemicals, . .	20	11	9	13	4
Paper and paper goods, . . . . .	98	99	82	110	28
Perfumes, toilet articles, etc., . . . . .	5	8	6	10	4
Photographs and photographic materials,	17	8	6	9	3
Polishes and dressing, . . . . .	29	10	6	12	6
Printing, publishing, and bookbinding, .	34	63	59	68	9
Print works, dye works, and bleacheries,	44	132	81	151	70
Railroad construction and equipment, . .	14	265	215	315	100
Rubber and elastic goods, . . . . .	34	181	155	201	46
Saddlery and harness, . . . . .	38	5	4	6	2
Scientific instruments and appliances, . .	15	72	53	85	32
Shipbuilding, . . . . .	56	12	7	19	12
Silk and silk goods, . . . . .	12	156	154	210	56
Sporting and athletic goods, . . . . .	7	40	22	52	30
Stone, . . . . .	175	22	14	29	15
Straw and palm leaf goods, . . . . .	20	117	23	204	181
Tallow, candles, soap, and grease, . . .	62	11	9	13	4
Tobacco, snuff, and cigars, . . . . .	42	41	30	50	20
Toys and games (children's), . . . . .	8	62	33	80	42
Trunks and valises, . . . . .	7	14	8	17	9
Whips, lashes, and stocks, . . . . .	10	33	11	47	36
Wooden goods, . . . . .	168	18	14	23	9
Woollen goods, . . . . .	125	127	90	149	59
Worsted goods, . . . . .	20	451	340	514	174
ALL INDUSTRIES, . . . . .	4,397	67	51	79	28



## RANGE OF EMPLOYMENT AND UNEMPLOYMENT: BY INDUSTRIES.

**1892, 1893.**

[In this presentation, the excess of greatest over smallest number of persons employed for 1892 and 1893 is brought forward from the tables on pages 38 to 41, inclusive, and a comparison is made between the two years. The relative increase or decrease in the excess of greatest number over smallest number of persons employed in 1893 as compared with 1892 is given with its equivalent percentage. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

INDUSTRIES.	Number of Estab- lishments Con- sidered	EXCESS OF GREATEST OVER SMALLEST NUMBER OF PERSONS EMPLOYED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Number	Percent- ages
Agricultural implements, . . . .	11	159	167	+8	+5.03
Arms and ammunition, . . . .	13	304	778	+474	+155.92
Artisans' tools, . . . .	65	256	619	+363	+141.80
Awnings, sails, tents, etc., . . . .	39	166	161	-5	-3.01
Boots and shoes, . . . .	712	15,850	21,626	+5,776	+36.44
Boxes (paper and wooden), . . . .	136	843	1,326	+483	+57.30
Brick, tiles, and sewer pipe, . . . .	49	1,285	1,393	+108	+8.40
Brooms, brushes, and mops, . . . .	21	157	243	+86	+54.78
Burial cases, caskets, coffins, etc., . . . .	6	7	29	+22	+314.29
Buttons and dress trimmings, . . . .	19	392	777	+385	+98.21
Carpetings, . . . .	11	455	3,114	+2,629	+542.06
Carriages and wagons, . . . .	132	1,001	1,348	+347	+34.67
Cement, kaolin, lime, and plaster, . . . .	7	41	47	+6	+14.63
Chemical preparations (compounded), . . . .	10	74	91	+17	+22.97
Clocks, watches, and jewelry, . . . .	97	1,062	1,572	+510	+48.02
Clothing, . . . .	135	3,142	3,728	+586	+18.65
Cooking, lighting, and heating apparatus, . . . .	36	690	1,033	+343	+49.71
Cordage and twine, . . . .	27	1,533	1,125	-408	-26.61
Corks, bungs, and taps, . . . .	3	5	12	+7	+140.00
Cotton goods, . . . .	149	5,556	17,164	+11,608	+208.93
Cotton, woollen, and other textiles, . . . .	3	465	1,919	+1,454	+312.69
Crayons, pencils, crucibles, etc., . . . .	3	11	7	-4	-36.36
Drugs and medicines, . . . .	23	152	133	-14	-9.21
Dyestuffs, . . . .	5	51	55	+4	+7.84
Earthen, plaster, and stone ware, . . . .	7	161	190	+29	+18.01
Electrical apparatus and appliances, . . . .	15	846	2,282	+1,436	+169.74
Electroplating, . . . .	9	15	42	+27	+180.00
Emery and sand paper and cloth, etc., . . . .	10	48	185	+137	+285.42
Fancy articles, etc., . . . .	5	17	17	*=	*=
Fertilizers, . . . .	5	6	13	+7	+116.67
Fine arts and taxidermy, . . . .	3	9	8	-1	-11.11

\* No change.



## PERSONS EMPLOYED: BY INDUSTRIES—Concluded.

## RANGE OF EMPLOYMENT AND UNEMPLOYMENT: BY INDUSTRIES—1892, 1893—Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	EXCESS OF GREATEST OVER SMALLEST NUMBER OF PERSONS EMPLOYED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Number	Percent- ages
Flax, hemp, jute, and linen goods, . . .	7	418	343	-75	-17.94
Food preparations, . . . . .	300	4,574	4,789	+215	+4.70
Furniture, . . . . .	121	1,049	1,369	+320	+30.51
Glass, . . . . .	8	139	184	+45	+32.37
Glue, isinglass, and starch, . . . .	18	268	274	+6	+2.24
Hair work (animal and human), . . .	9	52	56	+4	+7.69
Hose: rubber, linen, etc., . . . . .	3	93	153	+60	+64.52
Hosiery and knit goods, . . . . .	42	1,951	2,048	+97	+4.97
Ink, mucilage, and paste, . . . . .	9	74	78	+4	+5.41
Ivory, bone, shell, and horn goods, etc., .	10	120	211	+91	+75.83
Leather, . . . . .	148	2,185	3,537	+1,352	+61.88
Liquors and beverages (not spirituous), .	23	155	192	+37	+23.87
Liquors: malt, distilled, and fermented, .	53	346	362	+16	+4.62
Lumber, . . . . .	21	238	335	+97	+40.76
Machines and machinery, . . . . .	335	4,898	8,595	+3,697	+75.48
Metals and metallic goods, . . . . .	341	3,693	5,275	+1,582	+42.84
Mixed textiles, . . . . .	13	112	317	+205	+183.04
Models, lasts, and patterns, . . . . .	46	101	147	+46	+45.54
Musical instruments and materials, . . .	54	461	1,552	+1,091	+236.66
Oils and illuminating fluids, . . . . .	10	80	123	+43	+53.75
Paints, colors, and crude chemicals, . .	20	58	84	+26	+44.83
Paper and paper goods, . . . . .	98	1,527	2,739	+1,212	+79.37
Perfumes, toilet articles, etc., . . . . .	5	11	18	+7	+63.64
Photographs and photographic materials,	17	43	42	-1	-2.33
Polishes and dressing, . . . . .	29	146	180	+34	+23.29
Printing, publishing, and bookbinding, .	34	341	320	-21	-6.16
Print works, dye works, and bleacheries,	44	1,135	3,071	+1,936	+170.57
Railroad construction and equipment, . .	14	731	1,406	+675	+92.34
Rubber and elastic goods, . . . . .	34	1,286	1,570	+284	+22.08
Saddlery and harness, . . . . .	38	51	74	+23	+45.10
Scientific instruments and appliances, . .	15	327	472	+145	+44.34
Shipbuilding, . . . . .	56	611	668	+57	+9.33
Silk and silk goods, . . . . .	12	310	667	+357	+115.16
Sporting and athletic goods, . . . . .	7	234	209	-25	-10.68
Stone, . . . . .	175	3,125	2,583	-542	-17.34
Straw and palm leaf goods, . . . . .	20	3,439	3,628	+189	+5.50
Tallow, candles, soap, and grease, . . .	62	173	197	+24	+13.87
Tobacco, snuff, and cigars, . . . . .	42	828	843	+15	+1.81
Toys and games (children's), . . . . .	8	337	340	+3	+0.89
Trunks and valises, . . . . .	7	62	66	+4	+6.45
Whips, lashes, and stocks, . . . . .	10	55	360	+305	+554.55
Wooden goods, . . . . .	168	1,405	1,512	+107	+7.62
Woollen goods, . . . . .	125	3,109	7,341	+4,232	+136.12
Worsted goods, . . . . .	20	1,696	3,479	+1,783	+105.13
ALL INDUSTRIES, . . . . .	4,397	76,836	123,018	+46,182	+60.10



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# WAGES PAID: BY INDUSTRIES.

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## WAGES PAID: BY INDUSTRIES.

1892, 1893.

[In this presentation, the figures given under "Total Amount Paid in Wages During the Year," represent the returns made by the same establishments, in each industry, for the years 1892 and 1893, the whole number of establishments considered in "All Industries" being 4,397. Comparison is made, as regards the total amount paid in wages, between these two years. The relative increase or decrease in 1893 as compared with 1892 is given with its equivalent percentage. It must be borne in mind that these figures represent the sums paid to wage earners only and do not include amounts paid to officers, clerks, or other salaried persons.]

INDUSTRIES.	Number of Establishments Considered	TOTAL AMOUNT PAID IN WAGES DURING THE YEAR		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Agricultural implements, . . . .	11	\$353,884	\$325,434	—\$28,450	—8.04
Arms and ammunition, . . . .	13	1,276,524	1,145,461	—131,063	—10.27
Artisans' tools, . . . .	65	969,087	881,685	—87,402	—9.02
Awnings, sails, tents, etc., . . .	39	108,957	107,768	—1,189	—1.09
Boots and shoes, . . . .	712	25,533,508	22,618,569	—2,914,939	—11.42
Boxes (paper and wooden), . . .	136	1,366,440	1,287,998	—78,442	—5.74
Brick, tiles, and sewer pipe, . . .	49	600,353	566,168	—34,185	—5.69
Brooms, brushes, and mops, . . .	21	320,167	306,018	—14,149	—4.42
Burial cases, caskets, coffins, etc., .	6	100,484	102,136	+1,652	+1.64
Buttons and dress trimmings, . . .	19	467,967	407,855	—60,112	—12.85
Carpetings, . . . .	11	1,823,229	1,589,019	—234,210	—12.85
Carriages and wagons, . . . .	132	1,434,453	1,305,483	—128,970	—8.99
Cement, kaolin, lime, and plaster, .	7	45,684	43,145	—2,539	—5.56
Chemical preparations (compound- ed), . . . .	10	192,656	176,784	—15,872	—8.24
Clocks, watches, and jewelry, . . .	97	2,100,621	1,763,752	—336,869	—16.04
Clothing, . . . .	135	3,697,186	3,101,421	—595,765	—16.11
Cooking, lighting, and heating ap- paratus, . . . .	36	1,406,106	1,300,806	—105,300	—7.49
Cordage and twine, . . . .	27	1,200,192	1,149,812	—50,380	—4.20
Corks, bungs, and taps, . . . .	3	11,066	9,706	—1,360	—12.29
Cotton goods, . . . .	149	25,515,747	25,268,510	—247,237	—0.97
Cotton, woollen, and other textiles,	3	856,455	702,016	—154,439	—18.03
Crayons, pencils, crucibles, etc., .	3	10,644	7,893	—2,751	—25.85
Drugs and medicines, . . . .	23	191,297	175,319	—15,978	—8.35
Dyestuffs, . . . .	5	88,732	63,458	—25,274	—28.48
Earthen, plaster, and stone ware, . .	7	180,625	154,837	—25,788	—14.28
Electrical apparatus and appliances,	15	2,344,009	1,601,882	—742,127	—31.66
Electroplating, . . . .	9	40,477	39,720	—757	—1.87
Emery and sand paper and cloth, etc.,	10	158,435	140,969	—17,466	—11.02
Fancy articles, etc., . . . .	5	40,715	36,194	—4,521	—11.10
Fertilizers, . . . .	5	16,264	14,416	—1,848	—11.36
Fine arts and taxidermy, . . . .	3	9,024	7,058	—1,966	—21.79
Flax, hemp, jute, and linen goods, .	7	650,087	650,127	+40	+0.01
Food preparations, . . . .	300	4,086,756	3,684,017	—402,739	—9.85
Furniture, . . . .	121	2,058,842	1,757,435	—301,407	—14.64
Glass, . . . .	8	273,077	211,521	—61,556	—22.54

## WAGES PAID: BY INDUSTRIES — Continued.

## WAGES PAID: BY INDUSTRIES—1892, 1893—Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	TOTAL AMOUNT PAID IN WAGES DURING THE YEAR		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Glue, isinglass, and starch, . .	18	\$196,269	\$192,927	—\$3,342	—1.70
Hair work (animal and human), .	9	76,288	62,835	—13,453	—17.63
Hose: rubber, linen, etc., . .	3	96,658	106,435	+9,777	+10.12
Hosiery and knit goods, . . .	42	1,632,068	1,525,238	—106,830	—6.55
Ink, mucilage, and paste, . . .	9	48,768	47,766	—1,002	—2.05
Ivory, bone, shell, and horn goods, etc., . . . . .	10	176,304	157,314	—18,990	—10.77
Leather, . . . . .	148	3,003,501	2,748,051	—255,450	—8.51
Liquors and beverages (not spirit- uous), . . . . .	23	146,056	134,872	—11,184	—7.66
Liquors: malt, distilled, and fer- mented, . . . . .	53	858,291	915,690	+57,399	+6.69
Lumber, . . . . .	21	384,491	381,570	—2,921	—0.76
Machines and machinery, . . .	335	10,107,731	9,470,094	—637,637	—6.31
Metals and metallic goods, . .	341	7,424,150	6,726,827	—697,323	—9.39
Mixed textiles, . . . . .	13	283,421	282,293	—1,128	—0.40
Models, lasts, and patterns, . .	46	297,485	283,519	—13,966	—4.69
Musical instruments and materials,	54	2,210,920	1,712,136	—498,784	—22.56
Oils and illuminating fluids, . .	10	68,365	66,746	—1,619	—2.37
Paints, colors, and crude chemicals,	20	122,653	117,429	—5,224	—4.26
Paper and paper goods, . . .	98	4,269,230	3,957,802	—311,428	—7.29
Perfumes, toilet articles, etc., .	5	16,318	15,616	—702	—4.30
Photographs and photographic ma- terials, . . . . .	17	99,905	80,876	—19,029	—19.05
Polishes and dressing, . . .	29	139,184	136,845	—2,339	—1.68
Printing, publishing, and bookbind- ing, . . . . .	34	1,198,585	1,238,803	+40,218	+3.36
Print works, dye works, and bleach- eries, . . . . .	44	2,599,143	2,425,173	—173,970	—6.69
Railroad construction and equip- ment, . . . . .	14	1,783,725	2,236,271	+502,546	+28.17
Rubber and elastic goods, . . .	34	2,535,224	2,856,355	+321,131	+12.67
Saddlery and harness, . . .	38	140,956	106,704	—34,252	—24.30
Scientific instruments and appli- ances, . . . . .	15	535,271	449,456	—85,815	—16.03
Shipbuilding, . . . . .	56	467,672	458,900	—8,772	—1.88
Silk and silk goods, . . . .	12	798,801	729,114	—69,687	—8.72
Sporting and athletic goods, . .	7	157,733	134,689	—23,044	—14.61
Stone, . . . . .	175	1,888,009	2,097,036	+209,027	+11.07
Straw and palm leaf goods, . .	20	1,136,069	1,143,257	+7,188	+0.63
Tallow, candles, soap, and grease, .	62	330,940	337,003	+6,063	+1.83
Tobacco, snuff, and cigars, . .	42	1,026,942	1,067,974	+41,032	+4.00
Toys and games (children's), . .	3	221,554	196,611	—25,043	—11.30
Trunks and valises, . . . .	7	67,766	54,406	—13,360	—19.71
Whips, lashes, and stocks, . .	10	201,042	154,904	—46,138	—22.95
Wooden goods, . . . . .	168	1,712,341	1,636,757	—75,584	—4.41
Woollen goods, . . . . .	125	6,661,085	5,883,015	—778,070	—11.68
Worsted goods, . . . . .	20	3,321,837	2,202,796	—1,119,041	—33.69
ALL INDUSTRIES, . . . .	4,397	\$137,972,501	\$127,286,397	—\$10,686,104	—7.75

## AVERAGE YEARLY EARNINGS: BY INDUSTRIES.

1892, 1893.

[The average yearly earnings, shown in this presentation, have been obtained by dividing the total amount paid in wages during the years 1892 and 1893 (pages 50 and 51) by the average number of persons employed during the same years (pages 38 to 41 inclusive). The relative increase or decrease in average yearly earnings in 1893 as compared with 1892 is given with its equivalent percentage. It must be borne in mind that these figures represent the sums paid to wage earners only and do not include amounts paid to officers, clerks, or other salaried persons.]

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE YEARLY EARNINGS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Agricultural implements, . . . .	11	\$534.57	\$511.69	-\$22.88	-4.28
Arms and ammunition, . . . .	13	599.03	571.02	-28.01	-4.68
Artisans' tools, . . . .	65	535.70	527.96	-7.74	-1.44
Awnings, sails, tents, etc., . . . .	39	564.54	570.20	+5.66	+1.00
Boots and shoes, . . . .	712	522.60	498.33	-24.27	-4.64
Boxes (paper and wooden), . . . .	136	401.89	396.67	-5.22	-1.30
Brick, tiles, and sewer pipe, . . . .	49	458.63	460.67	+2.04	+0.44
Brooms, brushes, and mops, . . . .	21	367.59	360.45	-7.14	-1.94
Burial cases, caskets, coffins, etc., . . . .	6	543.16	543.23	+0.12	+0.02
Buttons and dress trimmings, . . . .	19	373.48	374.18	+0.70	+0.19
Carpetings, . . . .	11	387.67	366.56	-21.11	-5.45
Carriages and wagons, . . . .	132	595.46	613.48	+18.02	+3.03
Cement, kaolin, lime, and plaster, . . . .	7	475.88	463.92	-11.96	-2.51
Chemical preparations (compounded), . . . .	10	598.31	581.53	-16.78	-2.80
Clocks, watches, and jewelry, . . . .	97	569.58	523.06	-46.52	-8.17
Clothing, . . . .	135	400.09	411.11	+11.02	+2.75
Cooking, lighting, and heating apparatus, . . . .	36	623.27	626.59	+3.32	+0.53
Cordage and twine, . . . .	27	351.45	349.91	-1.54	-0.44
Corks, bungs, and taps, . . . .	3	299.08	303.31	+4.23	+1.41
Cotton goods, . . . .	149	345.99	343.60	-2.39	-0.69
Cotton, woollen, and other textiles, . . . .	3	377.29	366.21	-11.08	-2.94
Crayons, pencils, crucibles, etc., . . . .	3	506.86	438.50	-68.36	-13.49
Drugs and medicines, . . . .	23	410.51	398.45	-12.06	-2.94
Dyestuffs, . . . .	5	541.05	524.45	-16.60	-3.07
Earthen, plaster, and stone ware, . . . .	7	598.10	480.86	-117.24	-19.60
Electrical apparatus and appliances, . . . .	15	573.25	439.72	-133.53	-23.29
Electroplating, . . . .	9	499.72	502.78	+3.06	+0.61
Emery and sand paper and cloth, etc., . . . .	10	538.89	489.48	-49.41	-9.17
Faucy articles, etc., . . . .	5	387.76	377.02	-10.74	-2.77
Fertilizers, . . . .	5	492.85	465.03	-27.82	-5.64
Fine arts and taxidermy, . . . .	3	752.00	588.17	-163.83	-21.79



## WAGES PAID: BY INDUSTRIES — Concluded.

AVERAGE YEARLY EARNINGS: BY INDUSTRIES — 1892, 1893  
— Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE YEARLY EARNINGS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Flax, hemp, jute, and linen goods, . . .	7	\$315.42	\$303.66	—\$11.76	—3.73
Food preparations, . . . . .	300	491.26	472.25	—19.01	—3.87
Furniture, . . . . .	121	502.77	483.74	—19.03	—3.79
Glass, . . . . .	8	545.06	607.82	+62.76	+11.51
Glue, isinglass, and starch, . . . .	18	448.10	450.76	+2.66	+0.59
Hair work (animal and human), . . .	9	383.36	343.36	—40.00	—10.43
Hose: rubber, linen, etc., . . . .	3	402.74	376.10	—26.64	—6.61
Hosiery and knit goods, . . . . .	42	346.44	320.63	—25.81	—7.45
Ink, mucilage, and paste, . . . . .	9	431.58	438.22	+6.64	+1.54
Ivory, bone, shell, and horn goods, etc., .	10	406.23	401.31	—4.92	—1.21
Leather, . . . . .	148	507.52	490.55	—16.97	—3.34
Liquors and beverages (not spirituous), .	23	551.15	546.04	—5.11	—0.93
Liquors: malt, distilled, and fermented, .	53	711.68	733.73	+22.05	+3.10
Lumber, . . . . .	21	468.32	438.59	—29.73	—6.35
Machines and machinery, . . . . .	335	562.20	541.30	—20.90	—3.72
Metals and metallic goods, . . . . .	341	517.15	505.28	—11.87	—2.30
Mixed textiles, . . . . .	13	367.13	371.44	+4.31	+1.17
Models, lasts, and patterns, . . . .	46	708.30	679.90	—28.40	—4.01
Musical instruments and materials, . .	54	659.58	628.08	—31.50	—4.78
Oils and illuminating fluids, . . . .	10	455.77	476.76	+20.99	+4.61
Paints, colors, and crude chemicals, . .	20	542.71	531.35	—11.36	—2.09
Paper and paper goods, . . . . .	98	423.32	409.80	—13.52	—3.19
Perfumes, toilet articles, etc., . . . .	5	379.49	400.41	+20.92	+5.51
Photographs and photographic materials,	17	636.34	631.84	—4.50	—0.71
Polishes and dressing, . . . . .	29	486.66	490.48	+3.82	+0.78
Printing, publishing, and bookbinding, .	34	546.30	578.61	+32.31	+5.91
Print works, dye works, and bleacheries,	44	432.18	417.49	—14.69	—3.40
Railroad construction and equipment, .	14	600.38	615.42	+15.04	+2.51
Rubber and elastic goods, . . . . .	34	421.06	463.62	+42.56	+10.11
Saddlery and harness, . . . . .	38	546.34	517.98	—28.36	—5.19
Scientific instruments and appliances, . .	15	447.93	417.71	—30.22	—6.75
Shipbuilding, . . . . .	56	703.27	682.89	—20.38	—2.90
Silk and silk goods, . . . . .	12	340.93	326.52	—14.41	—4.23
Sporting and athletic goods, . . . .	7	503.94	475.93	—28.01	—5.56
Stone, . . . . .	175	551.40	538.53	—12.87	—2.33
Straw and palm leaf goods, . . . . .	20	478.75	489.62	+10.87	+2.27
Tallow, candles, soap, and grease, . .	62	467.43	486.30	+18.87	+4.04
Tobacco, snuff, and cigars, . . . .	42	575.64	624.55	+48.91	+8.50
Toys and games (children's), . . . .	8	422.81	396.99	—25.82	—6.11
Trunks and valises, . . . . .	7	594.44	549.56	—44.88	—7.55
Whips, lashes, and stocks, . . . . .	10	461.11	476.63	+15.52	+3.37
Wooden goods, . . . . .	168	535.27	536.29	+1.02	+0.19
Woollen goods, . . . . .	125	389.54	371.00	—18.54	—4.76
Worsted goods, . . . . .	20	369.26	244.08	—125.18	—33.90
ALL INDUSTRIES, . . . . .	4,397	\$450.59	\$434.17	—\$16.42	—3.64



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PROPORTION OF BUSINESS DONE  
AND  
DAYS IN OPERATION:  
  
BY INDUSTRIES.

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# PROPORTION OF BUSINESS DONE: BY INDUSTRIES.

1892, 1893.

[The figures given in this presentation represent the average proportion of business done by each establishment in the industries considered. Greatest capacity, or maximum production, has been considered as 100 per cent, and the percentages given indicate the average proportion of business done by each establishment during each year on the basis stated. Comparison is made between 1892 and 1893, and the relative increase or decrease in 1893 as compared with 1892 is given with its equivalent percentage.]

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE PRO- PORTION OF BUSINESS DONE		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Proportion	Percent- ages
Agricultural implements, . . . .	11	63.55	58.00	-5.55	-8.73
Arms and ammunition, . . . .	13	63.85	54.77	-9.08	-14.22
Artisans' tools, . . . .	65	65.80	55.98	-9.82	-14.92
Awnings, sails, tents, etc., . . . .	39	41.92	37.10	-4.82	-11.50
Boots and shoes, . . . .	712	69.50	48.59	-20.91	-30.09
Boxes (paper and wooden), . . . .	136	69.41	59.88	-9.53	-13.73
Brick, tiles, and sewer pipe, . . . .	49	74.45	69.88	-4.57	-6.14
Brooms, brushes, and mops, . . . .	21	71.62	59.05	-12.57	-17.55
Burial cases, caskets, coffins, etc., . . . .	6	82.17	82.33	+0.16	+0.19
Buttons and dress trimmings, . . . .	19	64.47	48.05	-16.42	-25.47
Carpetings, . . . .	11	80.64	69.27	-11.37	-14.10
Carriages and wagons, . . . .	132	68.69	61.31	-7.38	-10.74
Cement, kaolin, lime, and plaster, . . . .	7	74.86	73.57	-1.29	-1.72
Chemical preparations (compounded), . . . .	10	66.00	53.30	-12.70	-19.24
Clocks, watches, and jewelry, . . . .	97	64.14	52.33	-11.81	-18.41
Clothing, . . . .	135	73.50	63.57	-9.93	-13.51
Cooking, lighting, and heating apparatus, . . . .	36	72.94	62.06	-10.88	-14.92
Cordage and twine, . . . .	27	74.70	65.07	-9.63	-12.89
Corks, bungs, and taps, . . . .	3	57.00	58.33	+1.33	+2.33
Cotton goods, . . . .	149	93.77	86.09	-7.68	-8.19
Cotton, woollen, and other textiles, . . . .	3	71.67	60.33	-11.34	-15.82
Crayons, pencils, crucibles, etc., . . . .	3	66.67	53.33	-13.34	-20.01
Drugs and medicines, . . . .	23	57.43	55.61	-1.82	-3.17
Dyestuffs, . . . .	5	59.00	49.40	-9.60	-16.27
Earthen, plaster, and stone ware, . . . .	7	66.71	70.57	+3.86	+5.79
Electrical apparatus and appliances, . . . .	15	73.00	67.00	-6.00	-8.22
Electroplating, . . . .	9	60.89	53.33	-7.56	-12.42
Emery and sand paper and cloth, etc., . . . .	10	83.10	58.40	-24.70	-29.72
Fancy articles, etc., . . . .	5	80.00	69.20	-10.80	-13.50
Fertilizers, . . . .	5	55.00	54.00	-1.00	-1.82

PROPORTION OF BUSINESS DONE: BY INDUSTRIES — 1892,  
1893 — Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE PRO- PORTION OF BUSINESS DONE		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Proportion	Percent- ages
Fine arts and taxidermy, . . . . .	3	90.00	75.00	-15.00	-16.67
Flax, hemp, jute, and linen goods, . . .	7	81.00	76.86	-4.14	-5.11
Food preparations, . . . . .	300	63.27	59.80	-3.47	-5.48
Furniture, . . . . .	121	68.12	58.82	-9.30	-13.65
Glass, . . . . .	8	71.88	67.88	-4.00	-5.56
Glue, isinglass, and starch, . . . . .	18	76.50	70.22	-6.28	-8.21
Hair work (animal and human), . . . .	9	58.33	43.11	-10.22	-17.52
Hose: rubber, linen, etc., . . . . .	3	75.00	56.67	-18.33	-24.44
Hosiery and knit goods, . . . . .	42	67.36	57.76	-9.60	-14.25
Ink, mucilage, and paste, . . . . .	0	44.11	41.44	-2.67	-6.05
Ivory, bone, shell, and horn goods, etc., .	10	76.70	69.90	-6.80	-8.87
Leather, . . . . .	143	70.21	60.53	-9.68	-13.97
Liquors and beverages (not spirituous), .	23	58.35	52.83	-5.52	-9.46
Liquors: malt, distilled, and fermented, .	53	60.85	56.38	-4.47	-7.35
Lumber, . . . . .	21	73.62	69.38	-4.24	-5.76
Machines and machinery, . . . . .	335	68.47	59.20	-9.27	-13.54
Metals and metallic goods, . . . . .	341	69.32	59.37	-9.95	-14.35
Mixed textiles, . . . . .	13	81.46	74.00	-7.46	-9.16
Models, lasts, and patterns, . . . . .	46	65.20	59.33	-5.87	-9.00
Musical instruments and materials, . . .	54	74.26	60.33	-13.93	-18.76
Oils and illuminating fluids, . . . . .	10	64.20	54.50	-9.70	-15.11
Paints, colors, and crude chemicals, . .	20	66.25	61.20	-5.05	-7.62
Paper and paper goods, . . . . .	98	84.98	73.66	-11.32	-13.32
Perfumes, toilet articles, etc., . . . . .	5	80.00	60.00	-20.00	-25.00
Photographs and photographic materials,	17	56.35	46.94	-9.41	-16.70
Polishes and dressing, . . . . .	29	65.17	54.23	-10.89	-16.71
Printing, publishing, and bookbinding, .	34	72.53	66.06	-6.47	-8.92
Print works, dye works, and bleacheries,	44	68.09	61.86	-6.23	-9.15
Railroad construction and equipment, .	14	89.43	83.36	-6.07	-6.79
Rubber and elastic goods, . . . . .	34	74.59	65.74	-8.85	-11.86
Saddlery and harness, . . . . .	38	66.87	53.34	-13.53	-20.23
Scientific instruments and appliances, .	15	64.00	55.80	-8.20	-12.81
Shipbuilding, . . . . .	56	44.16	40.82	-3.34	-7.56
Silk and silk goods, . . . . .	12	75.00	49.75	-25.25	-33.67
Sporting and athletic goods, . . . . .	7	62.86	52.57	-10.29	-16.37
Stone, . . . . .	175	57.08	56.00	-1.08	-1.89
Straw and palm leaf goods, . . . . .	20	75.15	70.30	-4.85	-6.45
Tallow, candles, soap, and grease, . . .	62	67.27	61.08	-6.19	-9.20
Tobacco, snuff, and cigars, . . . . .	42	69.21	61.14	-8.07	-11.66
Toys and games (children's), . . . . .	8	80.13	71.88	-8.25	-10.30
Trunks and valises, . . . . .	7	84.29	75.29	-9.00	-10.68
Whips, lashes, and stocks, . . . . .	10	67.90	63.80	-4.10	-6.04
Wooden goods, . . . . .	163	64.80	57.86	-6.94	-10.71
Woollen goods, . . . . .	125	87.46	74.03	-13.43	-15.36
Worsted goods, . . . . .	20	90.15	77.40	-12.75	-14.14
ALL INDUSTRIES, . . . . .	4,397	69.38	59.18	-10.20	-14.70

## DAYS IN OPERATION: BY INDUSTRIES.

1892, 1893.

[The figures given in this presentation represent the average number of days in operation for each establishment in the industries considered. The average number of days in operation is based upon the average number of persons employed, the number of days being multiplied by the figures representing the average number of persons, and the sum divided by the aggregate average number of persons, an average for each industry and for All Industries being thus obtained. Comparison is made between 1892 and 1893, and the relative increase or decrease in 1893 as compared with 1892 is given with its equivalent percentage.]

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE NUMBER OF DAYS IN OPERATION		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Days	Percent- ages
Agricultural implements, . . . .	11	292.72	280.05	-12.67	-4.33
Arms and ammunition, . . . .	13	291.10	283.28	-7.82	-2.69
Artisans' tools, . . . .	65	295.98	275.17	-20.81	-7.03
Awnings, sails, tents, etc., . . . .	39	280.17	279.99	-0.18	-0.06
Boots and shoes, . . . .	712	293.56	274.41	-19.15	-6.52
Boxes (paper and wooden), . . . .	136	294.96	274.58	-20.38	-6.91
Brick, tiles, and sewer pipe, . . . .	49	238.23	231.46	-6.77	-2.84
Brooms, brushes, and mops, . . . .	21	303.27	291.37	-11.90	-3.92
Burial cases, caskets, coffins, etc., . . . .	6	306.13	304.35	-1.78	-0.58
Buttons and dress trimmings, . . . .	19	298.74	269.33	-29.41	-9.84
Carpetings, . . . .	11	303.33	247.53	-55.80	-18.40
Carriages and wagons, . . . .	132	298.03	289.24	-8.79	-2.95
Cement, kaolin, lime, and plaster, . . . .	7	296.85	288.97	-7.88	-2.65
Chemical preparations (compounded), . . . .	10	302.21	297.03	-5.18	-1.71
Clocks, watches, and jewelry, . . . .	97	286.46	260.54	-25.92	-9.05
Clothing, . . . .	135	296.97	279.53	-17.44	-5.87
Cooking, lighting, and heating apparatus, . . . .	36	281.07	265.50	-15.57	-5.54
Cordage and twine, . . . .	27	295.19	284.08	-11.11	-3.76
Corks, bungs, and taps, . . . .	3	298.32	296.00	-2.32	-0.78
Cotton goods, . . . .	149	304.85	282.09	-22.76	-7.47
Cotton, woollen, and other textiles, . . . .	3	304.61	255.93	-48.68	-15.98
Crayons, pencils, crucibles, etc., . . . .	3	284.81	249.89	-34.92	-12.26
Drugs and medicines, . . . .	23	302.16	295.33	-6.83	-2.26
Dyestuffs, . . . .	5	272.53	252.01	-20.52	-7.53
Earthen, plaster, and stone ware, . . . .	7	288.63	277.30	-11.33	-3.93
Electrical apparatus and appliances, . . . .	15	305.74	266.77	-38.97	-12.75
Electroplating, . . . .	9	290.57	278.96	-11.61	-4.00
Emery and sand paper and cloth, etc., . . . .	10	299.48	264.78	-34.70	-11.59
Fancy articles, etc., . . . .	5	292.24	281.06	-11.18	-3.83
Fertilizers, . . . .	5	305.09	302.90	-2.19	-0.72



DAYS IN OPERATION: BY INDUSTRIES — 1892, 1893  
— Concluded.

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE NUMBER OF DAYS IN OPERATION		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Days	Percent- ages
Fine arts and taxidermy, . . . . .	3	303.50	305.00	+1.50	+0.49
Flax, hemp, jute, and linen goods, . . .	7	298.80	259.72	—39.08	—13.08
Food preparations, . . . . .	300	304.42	298.64	—5.78	—1.90
Furniture, . . . . .	121	297.67	286.37	—11.30	—3.80
Glass, . . . . .	8	294.11	242.32	—51.79	—17.61
Glue, isinglass, and starch, . . . . .	18	234.06	232.85	—1.21	—0.52
Hair work (animal and human), . . . .	9	299.02	278.00	—21.02	—7.03
Hose: rubber, linen, etc., . . . . .	3	295.21	274.42	—20.79	—7.04
Hosiery and knit goods, . . . . .	42	299.38	281.44	—17.94	—5.99
Ink, mucilage, and paste, . . . . .	9	302.60	291.65	—10.95	—3.62
Ivory, bone, shell, and horn goods, etc., .	10	289.06	277.86	—11.20	—3.87
Leather, . . . . .	148	294.12	279.04	—15.08	—5.13
Liquors and beverages (not spirituous), .	23	303.25	302.11	—1.14	—0.38
Liquors: malt, distilled, and fermented, .	53	301.83	301.27	—0.56	—0.19
Lumber, . . . . .	21	300.60	255.65	—44.95	—14.95
Machines and machinery, . . . . .	335	303.51	286.60	—16.91	—5.57
Metals and metallic goods, . . . . .	341	292.02	266.52	—25.50	—8.73
Mixed textiles, . . . . .	13	298.85	285.56	—13.29	—4.45
Models, lasts, and patterns, . . . . .	46	289.97	286.77	—3.20	—1.10
Musical instruments and materials, . . .	54	298.19	261.84	—36.35	—11.18
Oils and illuminating fluids, . . . . .	10	306.17	305.73	—0.44	—0.14
Paints, colors, and crude chemicals, . .	20	295.77	281.61	—14.16	—4.79
Paper and paper goods, . . . . .	98	289.99	276.52	—13.47	—4.64
Perfumes, toilet articles, etc., . . . .	5	303.86	289.18	—14.68	—4.83
Photographs and photographic materials,	17	304.22	301.32	—2.90	—0.95
Polishes and dressing, . . . . .	29	294.48	286.08	—8.40	—2.85
Printing, publishing, and bookbinding, .	34	305.14	303.01	—2.13	—0.70
Print works, dye works, and bleacheries,	44	300.13	266.82	—33.31	—11.10
Railroad construction and equipment, . .	14	300.63	291.64	—8.99	—2.99
Rubber and elastic goods, . . . . .	34	281.15	284.55	+3.40	+1.21
Saddlery and harness, . . . . .	38	303.55	296.37	—7.18	—2.37
Scientific instruments and appliances, . .	15	301.22	289.49	—11.73	—3.89
Shipbuilding, . . . . .	56	295.98	293.40	—2.58	—0.87
Silk and silk goods, . . . . .	12	300.71	261.73	—38.98	—12.96
Sporting and athletic goods, . . . . .	7	303.31	280.93	—22.38	—7.38
Stone, . . . . .	175	274.26	283.07	+8.81	+3.21
Straw and palm leaf goods, . . . . .	20	267.27	264.26	—3.01	—1.13
Tallow, candles, soap, and grease, . . .	62	298.43	287.41	—11.02	—3.69
Tobacco, snuff, and cigars, . . . . .	42	297.41	290.41	—7.00	—2.35
Toys and games (children's), . . . . .	8	297.46	282.94	—14.52	—4.88
Trunks and valises, . . . . .	7	306.00	279.56	—26.44	—8.64
Whips, lashes, and stocks, . . . . .	10	300.58	245.79	—54.79	—18.23
Wooden goods, . . . . .	168	295.12	281.04	—14.08	—4.77
Woollen goods, . . . . .	125	299.29	262.37	—36.92	—12.34
Worsted goods, . . . . .	20	303.61	277.96	—25.65	—8.45
ALL INDUSTRIES, . . . . .	4,397	297.83	277.36	—20.47	—6.87



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STATISTICS OF MANUFACTURES.  
INDUSTRY PRESENTATIONS.

1892, 1893.

## NOTES.

The following explanatory notes should be read in connection with the tables to which they refer:

## ESTABLISHMENTS, PARTNERS, ETC.

There are duplications in the lines devoted to "number of private firms," "partners," "number of corporations," and "stockholders." They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for the presentation "All Industries." The industries in which these duplications appear can be ascertained by reference to the tables on pages 4 to 11.

## CAPITAL INVESTED.

In this presentation, the figures given against "Amount of capital invested" represent the returns made by the same establishments for each of the years given. Comparison is made, as regards the amount of capital invested between these two years. The relative increase or decrease in the later year as compared with the earlier year is given in amounts and percentages.

## STOCK USED.

In this presentation, the figures given against "Total value of stock used" represent the returns made by the same establishments for each of the years given. Comparison is made between the value of stock used in each of these two years. The relative increase or decrease in the later year as compared with the earlier year is given in amounts and percentages. In the case of Boots and Shoes, Carpetings, Cotton Goods, Leather, Machines and Machinery, Metals and Metallic Goods, Paper and Paper Goods, Woollen Goods, and Worsted Goods a detailed classification of articles of stock used by name is given. This classification is divided into three sections; in the first is shown the total value of the stock used during each of the two years in the establishments considered, with such classification by name as is possible and with the relative increase or decrease in the later year as compared with the earlier year expressed in amounts and percentages. In the second section will be found the *aggregate quantity* of each specified article of stock used as returned by these same establishments, together with the relative increase or decrease expressed in quantities and percentages. In the third section the *average value* per basis of each specified article of stock used is given with the increase or decrease therein expressed in amounts and percentages. The quantity of stock presented does not, in any instance, represent the total quantity used in any given industry. The figures are derived solely from the returns of those establishments which reported both quantity and value in each year, upon the same basis, thus admitting of direct comparison. Those establishments which failed to give detail in either or both years are included in the line "Not classified in detail." To avoid the use of small figures the units of measurement returned by the manufacturers have been increased when necessary; as, for instance, single pounds have been increased to 100 pounds or to tons, single feet to 1,000 feet, single yards to 100 yards, etc. The price per single pound, single foot, single yard, etc., may be readily obtained by dividing the figures given by 100, 1,000, etc.

## GOODS MADE.

In this presentation, the figures given against "Total value of goods made and work done," represent the returns made by the same establishments for each of the years given. Comparison is made between the value of goods made and work done in each of these two years. The relative increase or decrease in the later year as compared with the earlier year is given in amounts and percentages. In the case of Boots and Shoes, Carpetings, Cotton Goods, Leather, Machines and Machinery, Metals and Metallic Goods, Paper and Paper Goods, Woollen Goods, and Worsted Goods a detailed classification of articles of goods made by name is given. This classification is divided into three sections; in the first is shown the total value of goods made

and work done during each of the two years by the establishments considered, with such classification by name as is possible, and with the relative increase or decrease in the later year as compared with the earlier year expressed in amounts and percentages. In the second section will be found the *aggregate quantity* of each specified article as returned by these same establishments, together with the relative increase or decrease expressed in quantities and percentages. In the third section the *average value* per basis of each specified article of goods made is given with the increase or decrease therein expressed in amounts and percentages. The quantity or value of goods made does not, in any instance, represent the total amount or value manufactured in the State. The figures are derived solely from the returns of those establishments which reported both quantity and value in each year, upon the same basis, thus admitting of direct comparison. Those establishments which failed to give detail in either or both years are included in the line "Not classified in detail." To avoid the use of small figures the units of measurement returned by the manufacturers have been increased when necessary; as, for instance, single pounds have been increased to 100 pounds or to tons, single feet to 1,000 feet, single yards to 100 yards, etc. The price per single pound, single foot, single yard, etc., may be readily obtained by dividing the figures given by 100, 1,000, etc.

#### PERSONS EMPLOYED.

This presentation is divided into two sections. In the first is shown the aggregate average number of persons employed, the aggregate number of persons employed at periods of employment of the smallest number, the aggregate number of persons employed at periods of employment of the greatest number, and the excess of greatest over smallest number. By the terms "Periods of employment of smallest number" and "Periods of employment of greatest number" are meant those times, *as regards aggregate number of persons employed*, when the smallest or greatest number, respectively, was employed. The relative increase or decrease, expressed in amounts and percentages, is also given for one year as compared with the other. In the second section is shown the aggregate number of persons employed, by sex, during each month of the two years specified. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.

#### WAGES AND EARNINGS.

In this presentation is shown the total amount paid in wages to all wage earners employed for each of the two years, the average yearly earnings per individual without regard to sex or age, and the relative increases or decreases in one year as compared with the other, expressed in amounts and percentages. The average yearly earnings have been obtained by dividing the sum of the total amount paid in wages by the figures representing the average number of persons employed. In this section is also shown the classified weekly wages paid to employés, ranging from under \$5 per week to \$20 per week and over, and the number of males and females receiving such wage. The returns were made by manufacturers to cover the week during which the largest number of persons was employed. It must be borne in mind that these figures represent the sums paid to wage earners only and do not include amounts paid to officers, clerks, or other salaried persons.

#### PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.

In this presentation is shown the average proportion of business done and the average number of days in operation. Greatest capacity, or maximum production, has been considered 100 per cent, and the percentages given indicate the average proportion of business done by each establishment during each year on the basis stated. The average number of days in operation is based upon the average number of persons employed, the number of days worked in each establishment being multiplied by the figures representing the average number of persons, and the sum divided by the aggregate number of persons, thus obtaining an average for each industry and for "All Industries." The relative increase or decrease in the later year as compared with the earlier year is given with its equivalent percentage.

## AGRICULTURAL IMPLEMENTS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	11	11	=	=
Number of private firms, . . . . .	6	6	=	=
Number of partners, . . . . .	8	8	=	=
Males, . . . . .	8	8	=	=
Number of corporations, . . . . .	5	5	=	=
Number of stockholders, . . . . .	87	90	+3	+3.45
Males, . . . . .	65	63	+3	+4.62
Females, . . . . .	21	21	=	=
Banks, trustees, etc., . . . . .	1	1	=	=
Aggregates: partners and stockholders, .	95	98	+3	+3.16

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$1,395,811	\$1,344,889	—\$50,922	—3.65

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$571,330	\$542,104	—\$29,226	—5.12

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,212,890	\$1,141,502	—\$71,388	—5.89



## AGRICULTURAL IMPLEMENTS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	662	636	—26	—3.93
Smallest number, . . . . .	586	540	—46	—7.85
Greatest number, . . . . .	745	707	—38	—5.10
Excess of greatest over smallest number, .	159	167	+8	+5.03

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	669	—	669	679	—	679
February, . . . . .	681	—	681	692	—	692
March, . . . . .	700	—	700	697	—	697
April, . . . . .	692	—	692	686	—	686
May, . . . . .	688	—	688	654	—	654
June, . . . . .	673	—	673	634	—	634
July, . . . . .	653	—	653	601	—	601
August, . . . . .	594	—	594	543	—	543
September, . . . . .	605	—	605	580	—	580
October, . . . . .	634	—	634	607	—	607
November, . . . . .	646	—	646	619	—	619
December, . . . . .	691	—	691	644	—	644

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$353,884	\$325,434	—\$28,450	—8.04
Average yearly earnings, . . . . .	534.57	511.69	—22.88	—4.28

## AGRICULTURAL IMPLEMENTS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	11	-	11	19	-	19
\$5 but under \$6, . . . . .	14	-	14	20	-	20
\$6 but under \$7, . . . . .	11	-	11	30	-	30
\$7 but under \$8, . . . . .	79	-	79	93	-	93
\$8 but under \$9, . . . . .	120	-	120	75	-	75
\$9 but under \$10, . . . . .	132	-	132	96	-	96
\$10 but under \$12, . . . . .	136	-	136	155	-	155
\$12 but under \$15, . . . . .	120	-	120	128	-	128
\$15 but under \$20, . . . . .	79	-	79	76	-	76
\$20 and over, . . . . .	17	-	17	18	-	18
TOTALS, . . . . .	719	-	719	710	-	710

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	63.55	58.00	-5.55	-8.73
Average number of days in operation, . . .	292.72	280.05	-12.67	-4.33

## ARMS AND AMMUNITION. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	13	13	=	=
Number of private firms, . . . . .	8	8	=	=
Number of partners, . . . . .	13	13	=	=
Males, . . . . .	12	12	=	=
Females, . . . . .	-	1	+1	-
Special, . . . . .	1	-	-1	-100.00
Number of corporations, . . . . .	5	5	=	=
Number of stockholders, . . . . .	129	131	+2	+1.55
Males, . . . . .	102	94	-8	-7.84
Females, . . . . .	26	26	=	=
Banks, trustees, etc., . . . . .	1	11	+10	+1,000.00
Aggregates: partners and stockholders, .	142	144	+2	+1.41

## ARMS AND AMMUNITION — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$4,720,960	\$4,813,121	+\$92,161	+1.95

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$584,950	\$569,129	-\$15,821	-2.70

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,476,658	\$2,199,083	+\$722,425	+48.92

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,131	2,006	-125	-5.87
Smallest number, . . . . .	2,032	1,565	-467	-22.98
Greatest number, . . . . .	2,336	2,343	+7	+0.30
Excess of greatest over smallest number, .	304	778	+474	+155.92

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,973	156	2,129	2,023	198	2,221
February, . . . . .	1,969	153	2,122	2,035	194	2,229
March, . . . . .	2,027	155	2,182	2,047	190	2,237
April, . . . . .	2,044	148	2,192	2,024	153	2,177
May, . . . . .	2,049	167	2,216	1,959	172	2,131

## ARMS AND AMMUNITION—1892, 1893—Concluded.

## PERSONS EMPLOYED: BY MONTHS—Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
June, . . . . .	2,026	174	2,200	1,818	162	1,980
July, . . . . .	1,647	170	1,817	1,594	153	1,747
August, . . . . .	1,657	188	1,845	1,723	157	1,880
September, . . . . .	2,042	188	2,230	1,633	177	1,810
October, . . . . .	2,025	197	2,222	1,677	180	1,857
November, . . . . .	2,032	182	2,214	1,703	191	1,894
December, . . . . .	2,030	170	2,200	1,708	193	1,901

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,276,524	\$1,145,461	—\$131,063	—10.27
Average yearly earnings, . . . . .	599.03	571.02	—28.01	—4.68

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	155	21	176	183	—	183
\$5 but under \$6, . . . . .	69	21	90	52	3	55
\$6 but under \$7, . . . . .	98	19	117	109	17	126
\$7 but under \$8, . . . . .	80	32	112	109	14	123
\$8 but under \$9, . . . . .	89	47	136	132	19	151
\$9 but under \$10, . . . . .	171	32	203	191	52	243
\$10 but under \$12, . . . . .	277	18	295	265	69	334
\$12 but under \$15, . . . . .	374	3	377	327	30	357
\$15 but under \$20, . . . . .	674	—	674	611	—	611
\$20 and over, . . . . .	127	—	127	159	—	159
TOTALS, . . . . .	2,114	193	2,307	2,138	204	2,342

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	63.85	54.77	—9.08	—14.22
Average number of days in operation, . . .	291.10	283.28	—7.82	—2.69

## ARTISANS' TOOLS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	65	65	=	=
Number of private firms, . . . . .	54	54	=	=
Number of partners, . . . . .	76	76	=	=
Males, . . . . .	73	73	=	=
Females, . . . . .	3	2	-1	-33.33
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	11	11	=	=
Number of stockholders, . . . . .	645	690	+45	+6.98
Males, . . . . .	356	383	+27	+7.58
Females, . . . . .	235	242	+7	+2.98
Banks, trustees, etc., . . . . .	54	65	+11	+20.37
Aggregates: partners and stockholders, .	721	766	+45	+6.24

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$2,780,126	\$3,154,630	+\$374,504	+13.47

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$743,569	\$792,223	+\$48,659	+6.54

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$2,735,781	\$2,620,834	-\$114,947	-4.20

## ARTISANS' TOOLS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	1,809	1,670	—139	—7.68
Smallest number, . . . . .	1,680	1,315	—365	—21.73
Greatest number, . . . . .	1,936	1,934	—2	—0.10
Excess of greatest over smallest number, .	256	619	+363	+141.80

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,717	60	1,777	1,724	54	1,778
February, . . . . .	1,753	61	1,814	1,734	52	1,786
March, . . . . .	1,758	59	1,817	1,779	55	1,834
April, . . . . .	1,758	65	1,823	1,796	59	1,855
May, . . . . .	1,764	68	1,832	1,786	60	1,846
June, . . . . .	1,731	63	1,794	1,751	60	1,811
July, . . . . .	1,732	61	1,793	1,564	56	1,620
August, . . . . .	1,695	59	1,754	1,433	46	1,529
September, . . . . .	1,724	58	1,782	1,489	49	1,538
October, . . . . .	1,724	63	1,787	1,433	48	1,481
November, . . . . .	1,748	63	1,811	1,374	49	1,423
December, . . . . .	1,763	61	1,824	1,362	47	1,409
During the entire year,* . . .	127	2	129	42	—	42

\* 20 establishments in 1892; 11 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$969,087	\$881,685	—\$87,402	—9.02
Average yearly earnings, . . . . .	535.70	527.96	—7.74	—1.44



## ARTISANS' TOOLS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	127	23	150	90	7	97
\$5 but under \$6, . . . .	44	14	58	79	8	87
\$6 but under \$7, . . . .	95	12	107	81	9	90
\$7 but under \$8, . . . .	100	15	115	114	13	127
\$8 but under \$9, . . . .	114	3	117	132	6	138
\$9 but under \$10, . . . .	259	-	259	213	6	219
\$10 but under \$12, . . . .	260	1	261	332	3	335
\$12 but under \$15, . . . .	380	-	380	400	-	400
\$15 but under \$20, . . . .	310	1	311	306	-	306
\$20 and over, . . . . .	109	-	109	99	1	100
TOTALS, . . . . .	1,798	69	1,867	1,846	53	1,899

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	65.80	55.98	-9.82	-14.92
Average number of days in operation, . . .	295.98	275.17	-20.81	-7.03

## AWNINGS, SAILS, TENTS, ETC. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	39	39	=	=
Number of private firms, . . . . .	39	39	=	=
Number of partners, . . . . .	52	54	+2	+3.85
Males, . . . . .	52	53	+1	+1.92
Females, . . . . .	-	1	+1	-

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$181,925	\$168,007	-\$13,918	-7.65

## AWNINGS, SAILS, TENTS, ETC. — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$320,320	\$230,511	—\$89,809	—28.04

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$552,524	\$451,397	—\$101,127	—18.30

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	193	189	—4	—2.07
Smallest number, . . . . .	130	123	—7	—5.38
Greatest number, . . . . .	296	284	—12	—4.05
Excess of greatest over smallest number, .	166	161	—5	—3.01

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	124	30	154	129	19	148
February, . . . . .	128	35	163	126	25	151
March, . . . . .	138	37	175	150	34	184
April, . . . . .	163	46	209	150	42	192
May, . . . . .	175	51	226	153	50	203
June, . . . . .	168	54	222	158	52	210
July, . . . . .	156	49	205	162	46	208

## AWNINGS, SAILS, TENTS, ETC. — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	159	37	196	150	36	186
September, . . . . .	154	35	189	170	27	197
October, . . . . .	160	33	193	162	21	183
November, . . . . .	160	28	188	151	18	169
December, . . . . .	148	29	177	143	14	157
During the entire year,* . .	27	11	38	17	10	27

\* 5 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$108,957	\$107,768	—\$1,189	—1.09
Average yearly earnings, . . . . .	564.54	570.20	+\$5.66	+1.00

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	9	3	12	6	2	8
\$5 but under \$6, . . . . .	5	5	10	4	1	5
\$6 but under \$7, . . . . .	3	9	12	3	12	15
\$7 but under \$8, . . . . .	5	8	13	4	8	12
\$8 but under \$9, . . . . .	2	24	26	2	15	17
\$9 but under \$10, . . . . .	6	—	6	5	4	9
\$10 but under \$12, . . . . .	12	4	16	14	2	16
\$12 but under \$15, . . . . .	31	1	32	29	—	29
\$15 but under \$20, . . . . .	163	—	163	165	—	165
\$20 and over, . . . . .	1	—	1	3	—	3
TOTALS, . . . . .	237	54	291	235	44	279

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	41.92	37.10	—4.82	11.50
Average number of days in operation, . . .	280.17	279.99	—0.18	0.06

## BOOTS AND SHOES. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	712	712	=	=
Number of private firms, . . . . .	672	667	-5	-0.74
Number of partners, . . . . .	1,104	1,086	-18	-1.63
Males, . . . . .	1,070	1,052	-18	-1.68
Females, . . . . .	11	10	-1	-9.09
Special, . . . . .	22	18	-4	-18.18
Estates, . . . . .	1	6	+5	+500.00
Number of corporations, . . . . .	40	45	+5	+12.50
Number of stockholders, . . . . .	357	393	+36	+10.08
Males, . . . . .	321	353	+32	+9.97
Females, . . . . .	36	37	+1	+2.78
Banks, trustees, etc., . . . . .	-	3	+3	-
Aggregates: partners and stockholders, .	1,461	1,479	+18	+1.23

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$29,067,583	\$29,303,026	+\$235,443	+0.81

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$62,667,535	\$55,028,688	-\$7,638,847	-12.19
Leather, scrap . . . . .	589,887	438,269	-151,618	-25.70
Leather, sole . . . . .	11,053,544	9,172,325	-1,886,219	-17.06
Leather, upper . . . . .	11,509,649	10,131,436	-1,378,213	-11.97
Leather (not specified) . . . . .	1,240,432	892,474	-347,958	-28.05
Leather-board, . . . . .	68,667	57,973	-10,694	-15.57
Soles, cut . . . . .	618,416	478,217	-140,199	-22.67
Not classified in detail, . . . . .	37,581,940	33,857,994	-3,723,946	-9.91

## BOOTS AND SHOES — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percentages
Leather:					
Scrap, . . . . .	tons	8,514 $\frac{1}{4}$	7,525 $\frac{1}{2}$	-989 $\frac{1}{4}$	-11.62
Sole, . . . . .	100 pounds	462,388	405,360	-57,028	-12.33
Sole, . . . . .	sides	997,132	771,469	-225,663	-22.63
Upper, . . . . .	100 feet	696,959	617,000	-79,959	-11.47
Upper, . . . . .	100 pounds	91,833	89,621	-2,212	-2.41
Leather (not specified), .	100 pounds	121,270	88,756	-32,514	-26.81
Leather-board, . . . . .	tons	1,030 $\frac{1}{4}$	955 $\frac{1}{4}$	-75	-7.28
Soles, cut . . . . .	100 pairs	57,764	49,244	-8,520	-14.75

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Leather:					
Scrap, . . . . .	tons	\$69.28	\$58.24	-\$11.04	-15.94
Sole, . . . . .	100 pounds	17.77	17.26	-0.51	-2.87
Sole, . . . . .	sides	2.85	2.82	-0.03	-1.05
Upper, . . . . .	100 feet	13.07	12.89	-0.18	-1.37
Upper, . . . . .	100 pounds	26.14	24.30	-1.84	-7.04
Leather (not specified), .	100 pounds	10.23	10.06	-0.17	-1.66
Leather-board, . . . . .	tons	66.65	60.69	-5.96	-8.94
Soles, cut . . . . .	100 pairs	10.71	9.71	-1.00	-9.34

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percentages
Total value of goods made and work done, .	\$103,878,098	\$92,740,686	-\$11,137,412	-10.72
Boots:				
Boys', . . . . .	70,631	44,999	-25,632	-36.29
Children's, . . . . .	33,540	34,943	+1,403	+4.18
Men's, . . . . .	1,396,020	1,093,247	-296,773	-21.26
Misses', . . . . .	42,920	54,866	+11,946	+27.83
Women's, . . . . .	1,208,291	1,159,019	-49,272	-4.08
Youths', . . . . .	23,484	27,700	+4,216	+17.95
Boots (not specified), . . . . .	628,622	372,131	-256,491	-40.80



## BOOTS AND SHOES — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES — Concluded.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
<b>Boots and shoes:</b>				
Boys', . . . . .	\$1,689,441	\$1,431,469	—\$257,972	—15.27
Children's, . . . . .	1,541,190	1,429,194	—111,996	—7.27
Infants', . . . . .	43,928	63,325	+19,397	+44.16
Men's, . . . . .	16,670,616	15,937,442	—733,174	—4.40
Misses', . . . . .	925,502	895,186	—30,616	—3.31
Women's, . . . . .	4,798,955	4,560,580	—238,375	—4.97
Youths', . . . . .	785,161	695,745	—89,416	—11.39
Boots and shoes (not specified), . . .	12,257,380	11,222,110	—1,035,270	—8.45
<b>Shoes:</b>				
Boys', . . . . .	346,721	311,480	—35,241	—10.16
Children's, . . . . .	512,954	457,467	—55,487	—10.82
Infants', . . . . .	31,759	50,920	+19,161	+60.33
Low cut (misses'), . . . . .	27,214	36,500	+9,286	+34.12
Low-cut (women's), . . . . .	817,457	728,307	—89,150	—10.91
Low-cut (not specified), . . . . .	1,137,169	1,086,322	—50,847	—4.47
Men's, . . . . .	5,106,353	4,279,160	—827,193	—16.20
Misses', . . . . .	329,066	287,550	—41,516	—12.62
Women's, . . . . .	3,504,598	3,409,299	—95,299	—2.72
Youths', . . . . .	81,567	76,712	—4,855	—5.95
Shoes (not specified), . . . . .	10,035,174	9,527,490	—507,684	—5.06
<b>Slippers:</b>				
Men's, . . . . .	479,007	368,578	—110,429	—23.05
Women's, . . . . .	671,985	627,911	—44,074	—6.56
Slippers (not specified), . . . . .	1,922,513	1,628,217	—294,296	—15.31
Not classified in detail, . . . . .	36,758,580	30,836,817	—5,921,763	—16.11

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
<b>Boots:</b>					
Boys', . . . . .	pairs	46,971	31,728	—15,243	—32.45
Children's, . . . . .	pairs	44,055	44,671	+616	+1.40
Men's, . . . . .	pairs	593,004	530,255	—62,749	—10.58
Misses', . . . . .	pairs	40,434	45,700	+5,266	+13.02
Women's, . . . . .	pairs	1,008,972	1,045,137	+36,165	+3.58
Youths', . . . . .	pairs	19,628	23,000	+3,372	+17.18
Boots (not specified), . . . . .	pairs	429,062	275,574	—153,488	—35.77
<b>Boots and shoes:</b>					
Boys', . . . . .	pairs	1,531,636	1,406,546	—125,090	—8.17
Children's, . . . . .	pairs	2,761,944	2,667,066	—94,878	—3.44
Infants', . . . . .	pairs	71,011	83,610	+12,599	+17.74
Men's, . . . . .	pairs	9,788,916	9,611,617	—177,299	—1.81
Misses', . . . . .	pairs	1,362,909	1,365,644	+2,735	+0.20



## BOOTS AND SHOES — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE QUANTITIES — Concluded.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages.
Boots and shoes :— Con.					
Women's, . . . . .	pairs	4,279,859	4,033,112	—246,747	—5.77
Youths', . . . . .	pairs	901,441	809,356	—92,085	—10.22
Boots and shoes (not speci- fied), . . . . .	pairs	10,670,819	9,898,732	—772,087	—7.24
Shoes:					
Boys', . . . . .	pairs	353,272	337,035	—16,237	—4.60
Children's, . . . . .	pairs	1,137,269	977,266	—160,003	—14.07
Infants', . . . . .	pairs	136,656	233,886	+97,230	+71.15
Low-cut (misses'), . . . .	pairs	50,007	58,000	+7,993	+15.98
Low-cut (women's), . . . .	pairs	765,106	747,910	—17,196	—2.25
Low-cut (not specified), . .	pairs	1,204,808	1,228,999	+24,191	+2.01
Men's, . . . . .	pairs	2,878,721	2,508,197	—370,524	—12.87
Misses', . . . . .	pairs	383,838	337,743	—46,095	—12.01
Women's, . . . . .	pairs	3,030,216	3,073,659	+43,443	+1.43
Youths', . . . . .	pairs	85,572	76,919	—8,653	—10.11
Shoes (not specified), . . .	pairs	7,307,161	6,745,581	—561,580	—7.69
Slippers:					
Men's, . . . . .	pairs	646,653	496,411	—150,242	—23.23
Women's, . . . . .	pairs	1,080,822	1,013,373	—67,449	—6.24
Slippers (not specified), . .	pairs	2,454,400	2,122,932	—331,468	—13.51

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Boots:					
Boys', . . . . .	pairs	\$1.50	\$1.42	—\$0.08	—5.33
Children's, . . . . .	pairs	0.76	0.78	+0.02	+2.63
Men's, . . . . .	pairs	2.35	2.07	—0.28	—11.91
Misses', . . . . .	pairs	1.06	1.20	+0.14	+13.21
Women's, . . . . .	pairs	1.20	1.11	—0.09	—7.50
Youths', . . . . .	pairs	1.20	1.20	*=	*=
Boots (not specified), . . . . .	pairs	1.47	1.35	—0.12	—8.16
Boots and shoes:					
Boys', . . . . .	pairs	1.10	1.02	—0.08	—7.27
Children's, . . . . .	pairs	0.56	0.54	—0.02	—3.57
Infants', . . . . .	pairs	0.62	0.76	+0.14	+22.58
Men's, . . . . .	pairs	1.70	1.66	—0.04	—2.35
Misses', . . . . .	pairs	0.68	0.66	—0.02	—2.94
Women's, . . . . .	pairs	1.12	1.13	+0.01	+0.89
Youths', . . . . .	pairs	0.87	0.86	—0.01	—1.15
Boots and shoes (not specified), . . . . .	pairs	1.15	1.13	—0.02	—1.74

\* No change in average values.

## BOOTS AND SHOES — 1892, 1893 — Continued.

## GOODS MADE. AVERAGE VALUES — Concluded.

CLASSIFICATION.	Basis of Measure- ment	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Shoes:					
Boys' . . . . .	pairs	\$0.98	\$0.92	-0.06	-6.12
Children's, . . . . .	pairs	0.45	0.47	+0.02	+4.44
Infants', . . . . .	pairs	0.23	0.22	-0.01	-4.35
Low-cut (misses'), . . . . .	pairs	0.54	0.63	+0.09	+16.67
Low-cut (women's), . . . . .	pairs	1.07	0.97	-0.10	-9.35
Low-cut (not specified), . . . . .	pairs	0.94	0.88	-0.06	-6.38
Men's, . . . . .	pairs	1.77	1.71	-0.06	-3.39
Misses', . . . . .	pairs	0.86	0.85	-0.01	-1.16
Women's, . . . . .	pairs	1.16	1.11	-0.05	-4.31
Youths', . . . . .	pairs	0.95	1.00	+0.05	+5.26
Shoes (not specified), . . . . .	pairs	1.37	1.41	+0.04	+2.92
Slippers:					
Men's, . . . . .	pairs	0.74	0.74	*=	*=
Women's, . . . . .	pairs	0.62	0.62	*=	*=
Slippers (not specified), . . . . .	pairs	0.78	0.77	-0.01	-1.28

\* No change in average values.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percentages
Average number, . . . . .	48,859	45,389	-3,470	-7.10
Smallest number, . . . . .	40,761	34,039	-6,722	-16.49
Greatest number, . . . . .	56,611	55,665	-946	-1.67
Excess of greatest over smallest number, . . . . .	15,850	21,626	+5,776	+36.44

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	32,641	13,867	46,508	33,864	15,038	48,902
February, . . . . .	33,345	14,215	47,560	34,319	15,339	49,658
March, . . . . .	33,855	14,292	48,147	34,978	15,617	50,595
April, . . . . .	33,913	14,436	48,349	34,720	15,564	50,284
May, . . . . .	34,577	14,631	49,208	34,563	15,523	50,086
June, . . . . .	34,613	14,701	49,314	33,003	14,699	47,702
July, . . . . .	34,544	14,654	49,198	29,940	12,920	42,860

## BOOTS AND SHOES — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	35,234	14,938	50,172	28,685	12,167	40,852
September, . . . . .	35,294	14,903	50,197	28,488	12,147	40,635
October, . . . . .	34,893	14,961	49,854	28,390	12,297	40,687
November, . . . . .	34,091	14,601	48,692	27,871	12,140	40,011
December, . . . . .	33,882	14,459	48,341	28,387	12,283	40,670
During the entire year,* . . . .	6,319	2,647	8,966	2,591	1,105	3,696

\* 204 establishments in 1892; 100 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$25,533,508	\$22,618,569	—\$2,914,939	—11.42
Average yearly earnings, . . . . .	522.60	498.33	—24.27	—4.64

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	1,840	2,779	4,619	1,828	2,804	4,632
\$5 but under \$6, . . . . .	1,232	1,702	2,934	1,143	1,709	2,852
\$6 but under \$7, . . . . .	1,813	1,918	3,731	1,876	2,071	3,947
\$7 but under \$8, . . . . .	2,037	2,076	4,113	1,964	2,064	4,028
\$8 but under \$9, . . . . .	1,997	1,824	3,821	2,125	1,913	4,038
\$9 but under \$10, . . . . .	3,259	1,948	5,207	3,224	1,911	5,135
\$10 but under \$12, . . . . .	5,265	2,173	7,438	5,134	2,234	7,368
\$12 but under \$15, . . . . .	9,466	1,582	11,048	8,696	1,465	10,161
\$15 but under \$20, . . . . .	7,805	724	8,529	7,461	604	8,065
\$20 and over, . . . . .	2,713	67	2,780	2,748	59	2,807
TOTALS, . . . . .	37,427	16,793	54,220	36,199	16,834	53,033

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . .	69.50	48.59	—20.91	—30.09
Average number of days in operation, . . . .	293.56	274.41	—19.15	—6.52

**BOXES (PAPER AND WOODEN). 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	136	136	=	=
Number of private firms, . . . . .	123	121	-2	-1.63
Number of partners, . . . . .	183	180	-3	-1.64
Males, . . . . .	180	175	-5	-2.78
Females, . . . . .	1	2	+1	+100.00
Special, . . . . .	2	3	+1	+50.00
Number of corporations, . . . . .	13	15	+2	+15.38
Number of stockholders, . . . . .	119	131	+12	+10.08
Males, . . . . .	66	110	+44	+66.67
Females, . . . . .	44	19	-25	-56.82
Banks, trustees, etc., . . . . .	9	2	-7	-77.78
Aggregates: partners and stockholders, .	302	311	+9	+2.98

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$2,429,760	\$2,606,756	+\$176,996	+7.28

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$2,602,582	\$2,374,105	-\$228,477	-8.78

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,811,881	\$4,439,942	-\$371,939	-7.73

## BOXES (PAPER AND WOODEN) — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	3,400	3,247	-153	-4.50
Smallest number, . . . . .	2,993	2,580	-413	-13.80
Greatest number, . . . . .	3,836	3,906	+70	+1.82
Excess of greatest over smallest number, .	843	1,326	+483	+57.30

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,927	1,387	3,314	1,974	1,484	3,458
February, . . . . .	1,971	1,388	3,359	1,979	1,479	3,458
March, . . . . .	1,992	1,391	3,383	2,038	1,545	3,583
April, . . . . .	2,010	1,416	3,426	2,069	1,558	3,627
May, . . . . .	2,020	1,402	3,422	2,046	1,515	3,561
June, . . . . .	1,990	1,375	3,365	2,023	1,476	3,499
July, . . . . .	1,960	1,377	3,337	1,892	1,275	3,167
August, . . . . .	1,948	1,414	3,362	1,735	1,137	2,872
September, . . . . .	1,836	1,411	3,247	1,693	1,146	2,839
October, . . . . .	1,994	1,463	3,457	1,718	1,178	2,896
November, . . . . .	2,016	1,464	3,480	1,711	1,202	2,913
December, . . . . .	2,026	1,496	3,522	1,721	1,187	2,908
During the entire year,* . .	256	296	552	208	169	377

\* 26 establishments in 1892; 19 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,366,440	\$1,287,998	-\$78,442	-5.74
Average yearly earnings, . . . . .	401.89	396.67	-5.22	-1.30



## BOXES (PAPER AND WOODEN) — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	113	347	460	93	449	542
\$5 but under \$6, . . . .	66	217	283	53	222	275
\$6 but under \$7, . . . .	139	317	456	130	318	448
\$7 but under \$8, . . . .	152	265	417	180	223	403
\$8 but under \$9, . . . .	198	129	327	190	156	346
\$9 but under \$10, . . . .	423	107	530	403	82	485
\$10 but under \$12, . . . .	415	115	530	432	92	524
\$12 but under \$15, . . . .	438	43	481	482	39	521
\$15 but under \$20, . . . .	197	5	202	195	6	201
\$20 and over, . . . . .	31	-	31	33	-	33
TOTALS, . . . . .	2,172	1,545	3,717	2,191	1,587	3,778

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	69.41	59.88	-9.53	-13.73
Average number of days in operation, . . .	294.96	274.58	-20.38	-6.91

## BRICK, TILES, AND SEWER PIPE. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	49	49	=	=
Number of private firms, . . . . .	40	40	=	=
Number of partners, . . . . .	67	63	-4	-5.97
Males, . . . . .	62	58	-4	-6.45
Females, . . . . .	5	3	-2	-40.00
Special, . . . . .	-	1	+1	-
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	9	9	=	=
Number of stockholders, . . . . .	234	290	+6	+2.11
Males, . . . . .	215	218	+3	+1.40
Females, . . . . .	68	66	-2	-2.94
Banks, trustees, etc., . . . . .	1	6	+5	+500.00
Aggregates: partners and stockholders, .	351	353	+2	+0.57



## BRICK, TILES, AND SEWER PIPE—1892, 1893—Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$1,675,676	\$1,782,580	+\$106,904	+6.38

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$411,847	\$405,477	-\$6,370	-1.55

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,504,416	\$1,387,685	-\$116,731	-7.76

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	1,309	1,229	-80	-6.11
Smallest number, . . . . .	698	608	-90	-12.89
Greatest number, . . . . .	1,983	2,001	+18	+0.91
Excess of greatest over smallest number, .	1,285	1,393	+108	+8.40

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	673	4	677	634	4	638
February, . . . . .	671	4	675	633	4	637
March, . . . . .	701	4	705	715	5	720
April, . . . . .	1,372	4	1,376	1,242	5	1,247
May, . . . . .	1,814	4	1,818	1,801	5	1,806
June, . . . . .	1,875	3	1,878	1,852	5	1,857
July, . . . . .	1,857	3	1,860	1,852	4	1,856

## BRICK, TILES, AND SEWER PIPE — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	1,831	3	1,834	1,740	4	1,744
September, . . . . .	1,710	3	1,713	1,632	4	1,636
October, . . . . .	1,409	3	1,412	1,233	4	1,237
November, . . . . .	956	3	959	776	4	780
December, . . . . .	749	3	752	622	4	626
During the entire year,* . .	94	-	94	38	-	38

\* 3 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$600,353	\$566,168	-\$34,185	-5.69
Average yearly earnings, . . . . .	458.63	460.67	+2.04	+0.44

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	42	3	45	42	1	43
\$5 but under \$6, . . . . .	15	6	21	33	1	34
\$6 but under \$7, . . . . .	81	-	81	91	1	92
\$7 but under \$8, . . . . .	129	-	129	115	-	115
\$8 but under \$9, . . . . .	353	-	353	274	-	274
\$9 but under \$10, . . . . .	548	-	548	509	-	509
\$10 but under \$12, . . . . .	491	-	491	520	-	520
\$12 but under \$15, . . . . .	170	-	170	194	-	194
\$15 but under \$20, . . . . .	115	-	115	113	-	113
\$20 and over, . . . . .	49	-	49	48	-	48
TOTALS, . . . . .	1,993	9	2,002	1,939	3	1,942

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	74.45	69.88	-4.57	-6.14
Average number of days in operation, . . .	238.23	231.46	-6.77	-2.84

**BROOMS, BRUSHES, AND MOPS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	21	21	=	=
Number of private firms, . . . . .	19	19	=	=
Number of partners, . . . . .	34	32	-2	-5.88
Males, . . . . .	32	29	-3	-9.38
Females, . . . . .	2	2	=	=
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	37	37	=	=
Males, . . . . .	23	22	-1	-4.35
Females, . . . . .	11	12	+1	+9.09
Banks, trustees, etc., . . . . .	3	3	=	=
Aggregates : partners and stockholders, .	71	69	-2	-2.82

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$813,644	\$814,729	+\$1,085	+0.13

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$842,082	\$826,831	-\$15,251	-1.81

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,476,365	\$1,424,790	-\$51,575	-3.49

## BROOMS, BRUSHES, AND MOPS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	871	849	-22	-2.53
Smallest number, . . . . .	804	713	-91	-11.32
Greatest number, . . . . .	961	956	-5	-0.52
Excess of greatest over smallest number, .	157	243	+86	+54.78

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	452	413	865	473	447	920
February, . . . . .	448	413	861	474	441	915
March, . . . . .	457	424	881	479	440	919
April, . . . . .	453	426	879	470	442	912
May, . . . . .	443	426	869	455	423	878
June, . . . . .	436	426	862	447	434	881
July, . . . . .	438	415	853	430	395	825
August, . . . . .	431	417	848	391	374	765
September, . . . . .	440	428	868	391	364	755
October, . . . . .	451	428	879	414	399	813
November, . . . . .	452	425	877	412	394	806
December, . . . . .	457	437	894	408	376	784
During the entire year,* . .	259	198	457	251	196	447

\* 8 establishments in 1892; 6 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$320,167	\$306,018	-\$14,149	-4.42
Average yearly earnings, . . . . .	367.59	360.45	-7.14	-1.94

## BROOMS, BRUSHES, AND MOPS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	75	235	310	74	238	312
\$5 but under \$6, . . . .	38	106	144	37	95	132
\$6 but under \$7, . . . .	39	65	104	28	56	84
\$7 but under \$8, . . . .	23	24	47	27	29	56
\$8 but under \$9, . . . .	19	16	35	20	10	30
\$9 but under \$10, . . . .	32	7	39	35	11	46
\$10 but under \$12, . . . .	45	8	53	38	8	46
\$12 but under \$15, . . . .	82	5	87	88	4	92
\$15 but under \$20, . . . .	95	2	97	97	2	99
\$20 and over, . . . . .	46	-	46	46	-	46
TOTALS, . . . . .	494	468	962	490	453	943

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	71.62	59.05	-12.57	-17.55
Average number of days in operation, . . .	303.27	291.37	-11.90	-3.92

BURIAL CASES, CASKETS, COFFINS, ETC.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	6	6	=	=
Number of private firms, . . . . .	5	5	=	=
Number of partners, . . . . .	6	9	+3	+50.00
Males, . . . . .	6	9	+3	+50.00
Number of corporations, . . . . .	1	1	=	=
Number of stockholders, . . . . .	39	39	=	=
Males, . . . . .	29	29	=	=
Females, . . . . .	5	5	=	=
Banks, trustees, etc., . . . . .	5	5	=	=
Aggregates: partners and stockholders, .	45	48	+3	+6.67

**BURIAL CASES, CASKETS, COFFINS, ETC. — 1892, 1893**  
— Continued.

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$358,009	\$298,263	—\$59,746	—16.69

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$193,735	\$196,521	+\$2,786	+1.44

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$319,750	\$328,675	+\$8,925	+2.79

**PERSONS EMPLOYED.**

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	185	188	+3	+1.62
Smallest number, . . . . .	181	172	—9	—4.97
Greatest number, . . . . .	188	201	+13	+6.91
Excess of greatest over smallest number, .	7	29	+22	+314.29

**PERSONS EMPLOYED: BY MONTHS.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	159	28	187	164	23	187
February, . . . . .	159	29	188	162	24	186
March, . . . . .	158	29	187	161	24	185
April, . . . . .	158	28	186	161	23	184
May, . . . . .	157	27	184	161	23	184
June, . . . . .	158	27	185	158	21	179
July, . . . . .	155	26	181	158	20	178



**BURIAL CASES, CASKETS, COFFINS, ETC. — 1892, 1893**  
— Concluded.

**PERSONS EMPLOYED: BY MONTHS — Concluded.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	157	29	186	166	21	187
September, . . . . .	155	28	183	174	25	199
October, . . . . .	157	23	185	174	24	198
November, . . . . .	156	27	183	176	24	200
December, . . . . .	153	23	186	171	18	189
During the entire year,* . . . . .	136	25	161	33	4	37

\* 4 establishments in 1892; 3 establishments in 1893.

**WAGES AND EARNINGS.**

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$100,484	\$102,136	+\$1,652	+1.64
Average yearly earnings, . . . . .	543.16	543.28	+0.12	+0.02

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	—	4	4	3	1	4
\$5 but under \$6, . . . . .	2	—	2	6	3	9
\$6 but under \$7, . . . . .	3	2	5	7	1	8
\$7 but under \$8, . . . . .	7	—	7	8	1	9
\$8 but under \$9, . . . . .	8	5	13	12	5	17
\$9 but under \$10, . . . . .	6	10	16	10	10	20
\$10 but under \$12, . . . . .	14	2	16	15	3	18
\$12 but under \$15, . . . . .	60	—	60	59	—	59
\$15 but under \$20, . . . . .	59	—	59	49	—	49
\$20 and over, . . . . .	5	—	5	6	—	6
TOTALS, . . . . .	164	23	187	175	24	199

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	82.17	82.33	+0.16	+0.19
Average number of days in operation, . . . . .	306.13	304.35	-1.78	-0.58

**BUTTONS AND DRESS TRIMMINGS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	19	19	=	=
Number of private firms, . . . . .	12	11	-1	-8.33
Number of partners, . . . . .	20	18	-2	-10.00
Males, . . . . .	19	17	-2	-10.53
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	7	8	+1	+14.29
Number of stockholders, . . . . .	83	93	+10	+12.05
Males, . . . . .	65	77	+12	+18.46
Females, . . . . .	16	14	-2	-12.50
Banks, trustees, etc., . . . . .	2	2	=	=
Aggregates : partners and stockholders, .	103	111	+8	+7.77

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$918,781	\$952,435	+\$33,654	+3.66

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$670,526	\$559,784	-\$110,742	-16.52

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,523,003	\$1,326,105	-\$196,898	-12.93

## BUTTONS AND DRESS TRIMMINGS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	1,253	1,090	-163	-13.01
Smallest number, . . . . .	1,050	683	-367	-34.95
Greatest number, . . . . .	1,442	1,460	+18	+1.25
Excess of greatest over smallest number, .	392	777	+385	+98.21

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	372	819	1,191	527	850	1,377
February, . . . . .	390	872	1,262	518	850	1,363
March, . . . . .	400	927	1,327	504	840	1,344
April, . . . . .	381	907	1,288	505	807	1,312
May, . . . . .	374	870	1,244	476	763	1,239
June, . . . . .	388	807	1,195	407	750	1,157
July, . . . . .	402	820	1,222	378	686	1,064
August, . . . . .	403	790	1,193	314	485	799
September, . . . . .	401	813	1,214	272	473	745
October, . . . . .	400	897	1,297	295	565	860
November, . . . . .	401	889	1,290	296	561	857
December, . . . . .	391	891	1,282	349	591	940
During the entire year,* . . .	18	27	45	-	-	-

\* 4 establishments in 1892.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$467,967	\$407,855	-\$60,112	-12.85
Average yearly earnings, . . . . .	373.48	374.18	+0.70	+0.19

## BUTTONS AND DRESS TRIMMINGS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	59	308	367	72	305	377
\$5 but under \$6, . . . . .	42	340	382	39	335	374
\$6 but under \$7, . . . . .	38	140	178	31	130	161
\$7 but under \$8, . . . . .	52	80	132	62	77	139
\$8 but under \$9, . . . . .	35	32	67	32	27	59
\$9 but under \$10, . . . . .	65	24	89	56	15	71
\$10 but under \$12, . . . . .	93	7	100	63	1	69
\$12 but under \$15, . . . . .	89	2	91	107	1	108
\$15 but under \$20, . . . . .	71	1	72	75	1	76
\$20 and over, . . . . .	17	-	17	18	-	18
TOTALS, . . . . .	561	934	1,495	560	892	1,452

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	64.47	48.05	-16.42	-25.47
Average number of days in operation, . . .	298.74	269.33	-29.41	-9.84

## CARPETINGS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	11	11	=	=
Number of private firms, . . . . .	4	4	=	=
Number of partners, . . . . .	4	5	+1	+25.00
Males, . . . . .	4	5	+1	+25.00
Number of corporations, . . . . .	7	7	=	=
Number of stockholders, . . . . .	974	976	+2	+0.21
Males, . . . . .	447	429	-18	-4.03
Females, . . . . .	359	364	+5	+1.39
Banks, trustees, etc., . . . . .	163	183	+15	+8.93
Aggregates: partners and stockholders, .	978	981	+3	+0.31

## CARPETINGS — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$7,828,754	\$7,993,248	+\$164,494	+2.10

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$5,218,619	\$4,787,252	—\$431,367	—8.27
Wool (not specified), . . . . .	2,307,176	2,226,591	—80,585	—3.49
Yarn, cotton . . . . .	344,916	298,070	—46,846	—13.58
Yarn, jute . . . . .	72,292	68,612	—3,680	—5.09
Yarn, linen . . . . .	125,202	103,726	—21,476	—17.15
Yarn, worsted . . . . .	1,298,243	992,373	—305,870	—23.56
Not classified in detail, . . . . .	1,070,790	1,097,880	+27,090	+2.53

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percent- ages
Wool (not specified), . . . . .	100 pounds	128,005	125,577	—2,428	—1.90
Yarn, cotton . . . . .	100 pounds	31,819	27,566	—4,253	—13.37
Yarn, jute . . . . .	100 pounds	9,110	8,691	—419	—4.60
Yarn, linen . . . . .	100 pounds	8,223	6,722	—1,501	—18.25
Yarn, worsted . . . . .	100 pounds	31,432	24,439	—6,993	—22.25

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measure- ment	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percent- ages
Wool (not specified), . . . . .	100 pounds	\$18.02	\$17.73	—\$0.29	—1.61
Yarn, cotton . . . . .	100 pounds	10.84	10.81	—0.03	—0.28
Yarn, jute . . . . .	100 pounds	7.94	7.89	—0.05	—0.63
Yarn, linen . . . . .	100 pounds	15.23	15.43	+0.20	+1.31
Yarn, worsted . . . . .	100 pounds	41.30	40.61	—0.69	—1.67

## CARPETINGS — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$8,214,540	\$7,427,355	—\$787,155	—9.58
Carpeting, Brussels . . . . .	2,912,525	2,617,565	—294,960	—10.13
Carpeting, Wilton . . . . .	1,125,716	891,276	—234,440	—20.83
Not classified in detail, . . . . .	4,176,299	3,918,544	—257,755	—6.17

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
Carpeting, Brussels . . . . .	100 yards	34,118	30,924	—3,194	—9.36
Carpeting, Wilton . . . . .	100 yards	7,346	5,837	—1,509	—20.54

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measure- ment	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Carpeting, Brussels . . . . .	100 yards	\$85.37	\$84.65	—\$0.72	—0.84
Carpeting, Wilton . . . . .	100 yards	153.24	152.69	—0.55	—0.36

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	4,703	4,335	—368	—7.82
Smallest number, . . . . .	4,434	1,917	—2,517	—56.77
Greatest number, . . . . .	4,919	5,031	+112	+2.28
Excess of greatest over smallest number, .	485	3,114	+2,629	+542.06

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	2,125	2,502	4,627	2,238	2,682	4,920
February, . . . . .	2,134	2,542	4,676	2,256	2,694	4,950
March, . . . . .	2,130	2,581	4,711	2,246	2,720	4,966
April, . . . . .	2,109	2,543	4,652	2,246	2,703	4,949
May, . . . . .	2,105	2,525	4,630	2,238	2,709	4,947



## CARPETINGS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
June, . . . . .	2,176	2,564	4,740	2,268	2,723	4,991
July, . . . . .	2,186	2,642	4,828	2,208	2,707	4,915
August, . . . . .	2,163	2,583	4,746	1,734	1,928	3,662
September, . . . . .	2,181	2,625	4,806	843	1,021	1,864
October, . . . . .	2,210	2,656	4,866	1,597	1,994	3,591
November, . . . . .	2,182	2,438	4,620	1,748	2,381	4,129
December, . . . . .	2,193	2,420	4,613	1,742	2,395	4,137
During the entire year,* . . . .	-	-	-	12	-	12

\* 1 establishment in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,823,229	\$1,589,019	—\$234,210	—12.85
Average yearly earnings, . . . . .	387.67	366.56	—21.11	—5.45

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	364	784	1,148	314	664	978
\$5 but under \$6, . . . . .	176	504	680	202	536	738
\$6 but under \$7, . . . . .	302	370	672	140	443	583
\$7 but under \$8, . . . . .	166	231	397	316	375	691
\$8 but under \$9, . . . . .	222	211	433	233	236	469
\$9 but under \$10, . . . . .	260	283	543	258	283	541
\$10 but under \$12, . . . . .	253	237	490	245	178	423
\$12 but under \$15, . . . . .	309	15	324	312	32	344
\$15 but under \$20, . . . . .	162	1	163	208	2	210
\$20 and over, . . . . .	36	-	36	63	-	63
TOTALS, . . . . .	2,250	2,636	4,886	2,291	2,749	5,040

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . .	80.64	69.27	—11.37	—14.10
Average number of days in operation, . . . .	303.33	247.53	—55.80	—18.40

**CARRIAGES AND WAGONS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	132	132	=	=
Number of private firms, . . . . .	120	119	-1	-0.83
Number of partners, . . . . .	167	163	-4	-2.40
Males, . . . . .	165	161	-4	-2.42
Special, . . . . .	2	1	-1	-50.00
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	12	13	+1	+8.33
Number of stockholders, . . . . .	291	323	+32	+11.00
Males, . . . . .	207	236	+29	+14.01
Females, . . . . .	66	68	+2	+3.03
Banks, trustees, etc., . . . . .	18	19	+1	+5.56
Aggregates: partners and stockholders, .	458	486	+28	+5.76

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$3,026,145	\$3,108,416	+\$82,271	+2.72

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$1,741,604	\$1,610,781	-\$130,823	-7.51

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,171,404	\$3,887,001	-\$284,403	-6.82

## CARRIAGES AND WAGONS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,409	2,128	—281	—11.66
Smallest number, . . . . .	1,935	1,460	—475	—24.55
Greatest number, . . . . .	2,936	2,808	—128	—4.36
Excess of greatest over smallest number, .	1,001	1,348	+347	+34.67

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	2,307	5	2,312	2,307	8	2,315
February, . . . . .	2,398	4	2,402	2,367	8	2,375
March, . . . . .	2,591	4	2,595	2,456	8	2,464
April, . . . . .	2,744	4	2,748	2,491	7	2,498
May, . . . . .	2,779	4	2,783	2,571	7	2,578
June, . . . . .	2,694	4	2,698	2,377	7	2,384
July, . . . . .	2,353	4	2,357	1,959	6	1,965
August, . . . . .	2,211	4	2,215	1,796	5	1,801
September, . . . . .	2,193	3	2,196	1,651	3	1,654
October, . . . . .	2,174	4	2,178	1,675	2	1,677
November, . . . . .	2,163	4	2,167	1,726	4	1,730
December, . . . . .	2,190	4	2,194	1,969	4	1,973
During the entire year,* . . . . .	297	—	297	117	—	117

\* 23 establishments in 1892; 14 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,434,453	\$1,305,483	—\$128,970	—8.99
Average yearly earnings, . . . . .	595.46	613.48	+18.02	+3.03

## CARRIAGES AND WAGONS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	82	-	82	55	1	56
\$5 but under \$6, . . . . .	67	3	70	57	-	57
\$6 but under \$7, . . . . .	49	-	49	57	2	59
\$7 but under \$8, . . . . .	104	1	105	127	2	129
\$8 but under \$9, . . . . .	141	-	141	108	2	110
\$9 but under \$10, . . . . .	288	-	288	322	-	322
\$10 but under \$12, . . . . .	510	-	510	518	-	518
\$12 but under \$15, . . . . .	903	-	903	727	-	727
\$15 but under \$20, . . . . .	684	-	684	673	-	673
\$20 and over, . . . . .	140	-	140	116	-	116
TOTALS, . . . . .	2,968	4	2,972	2,760	7	2,767

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	68.69	61.31	-7.38	-10.74
Average number of days in operation, . . .	298.03	289.24	-8.79	-2.95

## CEMENT, KAOLIN, LIME, AND PLASTER. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	7	7	=	=
Number of private firms, . . . . .	5	5	=	=
Number of partners, . . . . .	9	9	=	=
Males, . . . . .	9	9	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	19	16	-3	-15.79
Males, . . . . .	16	14	-2	-12.50
Females, . . . . .	2	2	=	=
Banks, trustees, etc., . . . . .	1	-	-1	-100.00
Aggregates: partners and stockholders, . .	28	25	-3	-10.71

## CEMENT, KAOLIN, LIME, AND PLASTER — 1892, 1893

— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$90,300	\$96,300	+\$6,000	+6.64

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$167,540	\$184,026	+\$16,486	+9.84

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$239,886	\$250,245	+\$10,359	+4.32

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	96	93	—3	—3.13
Smallest number, . . . . .	78	64	—14	—17.95
Greatest number, . . . . .	119	111	—8	—6.72
Excess of greatest over smallest number, .	41	47	+6	+14.63

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	78	—	78	67	—	67
February, . . . . .	78	—	78	67	—	67
March, . . . . .	80	—	80	77	—	77
April, . . . . .	80	—	80	93	—	93
May, . . . . .	113	—	113	97	—	97
June, . . . . .	98	—	98	97	—	97
July, . . . . .	95	—	95	96	—	96

CEMENT, KAOLIN, LIME, AND PLASTER — 1892, 1893  
— Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	107	-	107	107	-	107
September, . . . . .	109	-	109	108	-	108
October, . . . . .	109	-	109	103	-	103
November, . . . . .	99	-	99	92	-	92
December, . . . . .	85	-	85	90	-	90
During the entire year,* . .	13	-	13	8	-	8

\* 5 establishments in 1892; 3 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$45,684	\$43,145	—\$2,539	—5.56
Average yearly earnings, . . . . .	475.88	463.92	—11.96	—2.51

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	-	-	-	-	-	-
\$5 but under \$6, . . . . .	-	-	-	-	-	-
\$6 but under \$7, . . . . .	-	-	-	-	-	-
\$7 but under \$8, . . . . .	3	-	3	-	-	-
\$8 but under \$9, . . . . .	-	-	-	1	-	1
\$9 but under \$10, . . . . .	97	-	97	81	-	81
\$10 but under \$12, . . . . .	6	-	6	7	-	7
\$12 but under \$15, . . . . .	10	-	10	12	-	12
\$15 but under \$20, . . . . .	9	-	9	9	-	9
\$20 and over, . . . . .	1	-	1	2	-	2
TOTALS, . . . . .	126	-	126	112	-	112

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	74.86	73.57	—1.29	—1.72
Average number of days in operation, . .	296.85	288.97	—7.88	—2.65



# **CHEMICAL PREPARATIONS (COMPOUNDED).** **1892, 1893.**

## **ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	10	10	=	=
Number of private firms, . . . . .	6	6	=	=
Number of partners, . . . . .	9	9	=	=
Males, . . . . .	7	7	=	=
Females, . . . . .	2	2	=	=
Number of corporations, . . . . .	4	4	=	=
Number of stockholders, . . . . .	41	46	+5	+12.20
Males, . . . . .	31	31	=	=
Females, . . . . .	7	10	+3	+42.86
Banks, trustees, etc., . . . . .	3	5	+2	+66.67
Aggregates: partners and stockholders, .	50	55	+5	+10.00

## **CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$786,857	\$826,121	+\$39,264	+4.99

## **STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$570,250	\$471,037	-\$99,213	-17.40

## **GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,136,122	\$936,428	-\$199,694	-17.58

## CHEMICAL PREPARATIONS (COMPOUNDED) — 1892, 1893

— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	322	304	—18	—5.59
Smallest number, . . . . .	285	251	—34	—11.93
Greatest number, . . . . .	359	342	—17	—4.74
Excess of greatest over smallest number, .	74	91	+17	+22.97

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	292	3	295	336	1	337
February, . . . . .	288	3	291	323	1	324
March, . . . . .	289	3	292	320	1	321
April, . . . . .	323	4	327	320	1	321
May, . . . . .	321	4	325	335	1	336
June, . . . . .	317	4	321	325	1	326
July, . . . . .	309	4	313	306	1	307
August, . . . . .	326	4	330	284	1	285
September, . . . . .	329	4	333	253	1	254
October, . . . . .	336	4	340	259	1	260
November, . . . . .	351	2	353	278	1	279
December, . . . . .	350	2	352	268	1	269
During the entire year,* . . .	28	—	28	13	1	14

\* 5 establishments in 1892; 6 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$192,656	\$176,784	—\$15,872	—8.24
Average yearly earnings, . . . . .	598.31	551.53	—16.78	—2.80

## CHEMICAL PREPARATIONS (COMPOUNDED) — 1892, 1893

— Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	-	1	1	1	-	1
\$5 but under \$6, . . . . .	2	-	2	-	-	-
\$6 but under \$7, . . . . .	3	-	3	6	-	6
\$7 but under \$8, . . . . .	6	-	6	8	-	8
\$8 but under \$9, . . . . .	3	1	4	12	-	12
\$9 but under \$10, . . . . .	153	-	153	153	-	153
\$10 but under \$12, . . . . .	52	-	52	67	1	68
\$12 but under \$15, . . . . .	103	-	103	85	-	85
\$15 but under \$20, . . . . .	22	-	22	14	-	14
\$20 and over, . . . . .	3	-	3	3	-	3
TOTALS, . . . . .	347	2	349	349	1	350

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	66.00	53.30	-12.70	-19.24
Average number of days in operation, . . .	302.21	297.03	-5.18	-1.71

## CLOCKS, WATCHES, AND JEWELRY. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	97	97	=	=
Number of private firms, . . . . .	92	90	-2	-2.17
Number of partners, . . . . .	190	191	+1	+0.53
Males, . . . . .	181	173	-8	-4.42
Females, . . . . .	7	11	+4	+57.14
Special, . . . . .	2	7	+5	+250.00
Number of corporations, . . . . .	5	7	+2	+40.00
Number of stockholders, . . . . .	164	178	+14	+8.54
Males, . . . . .	136	149	+13	+9.56
Females, . . . . .	28	29	+1	+3.57
Aggregates: partners and stockholders, . .	354	369	+15	+4.24

## CLOCKS, WATCHES, AND JEWELRY — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$5,327,142	\$5,095,165	—\$231,977	—4.35

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$2,318,361	\$1,781,400	—\$536,961	—23.16

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$6,794,244	\$5,561,156	—\$1,233,088	—18.15

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	3,688	3,372	—316	—8.57
Smallest number, . . . . .	3,172	2,533	—639	—20.15
Greatest number, . . . . .	4,234	4,105	—129	—3.05
Excess of greatest over smallest number, .	1,062	1,572	+510	+48.02

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	2,823	973	3,796	2,840	1,005	3,845
February, . . . . .	2,796	983	3,779	2,833	1,000	3,833
March, . . . . .	2,648	949	3,597	2,756	959	3,715
April, . . . . .	2,567	914	3,481	2,661	906	3,567
May, . . . . .	2,538	870	3,408	2,569	879	3,448
June, . . . . .	2,780	968	3,748	2,632	864	3,496
July, . . . . .	2,753	963	3,726	2,496	861	3,357

## CLOCKS, WATCHES, AND JEWELRY — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	2,709	964	3,673	2,201	760	2,961
September, . . . . .	2,739	982	3,721	2,201	756	2,957
October, . . . . .	2,810	998	3,808	2,306	797	3,103
November, . . . . .	2,776	991	3,767	2,326	771	3,097
December, . . . . .	2,758	981	3,739	2,303	781	3,084
During the entire year,* . . . .	343	108	451	201	112	313

\* 21 establishments in 1892; 12 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$2,100,621	\$1,763,752	—\$336,869	—16.04
Average yearly earnings, . . . . .	569.58	523.06	—46.52	—8.17

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	101	104	205	87	85	172
\$5 but under \$6, . . . . .	118	211	329	99	180	279
\$6 but under \$7, . . . . .	136	156	292	124	197	321
\$7 but under \$8, . . . . .	148	198	346	120	232	352
\$8 but under \$9, . . . . .	177	143	320	175	141	316
\$9 but under \$10, . . . . .	203	103	306	252	95	347
\$10 but under \$12, . . . . .	404	60	464	379	65	444
\$12 but under \$15, . . . . .	611	22	633	656	11	667
\$15 but under \$20, . . . . .	822	16	838	779	10	789
\$20 and over, . . . . .	396	2	398	330	6	336
TOTALS, . . . . .	3,116	1,015	4,131	3,001	1,022	4,023

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . .	64.14	52.33	—11.81	—18.41
Average number of days in operation, . . . .	286.46	260.54	—25.92	—9.05

## CLOTHING. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	135	135	=	=
Number of private firms, . . . . .	114	112	-2	-1.75
Number of partners, . . . . .	230	223	-7	-3.04
Males, . . . . .	227	220	-7	-3.08
Females, . . . . .	2	2	=	=
Special, . . . . .	1	-	-1	-100.00
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	21	23	+2	+9.52
Number of stockholders, . . . . .	593	594	+1	+0.17
Males, . . . . .	414	385	-29	-7.00
Females, . . . . .	158	177	+19	+12.03
Banks, trustees, etc., . . . . .	21	32	+11	+52.33
Aggregates: partners and stockholders, .	823	817	-6	-0.73

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$10,843,699	\$10,533,685	-\$310,014	-2.86

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$16,297,433	\$13,929,715	-\$2,367,718	-14.53

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$27,284,723	\$24,014,364	-\$3,270,359	-11.99



## CLOTHING — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	9,241	7,544	-1,697	-18.36
Smallest number, . . . . .	7,576	5,502	-2,074	-27.38
Greatest number, . . . . .	10,718	9,230	-1,488	-13.88
Excess of greatest over smallest number, .	3,142	3,728	+586	+18.65

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	2,900	5,973	8,873	2,308	5,528	7,836
February, . . . . .	2,831	6,041	8,872	2,343	5,717	8,060
March, . . . . .	2,872	6,270	9,142	2,395	6,011	8,406
April, . . . . .	3,048	6,597	9,645	2,396	6,245	8,641
May, . . . . .	2,959	6,036	9,595	2,331	6,161	8,542
June, . . . . .	2,905	6,440	9,345	2,337	5,825	8,162
July, . . . . .	2,897	6,045	8,942	2,116	4,893	7,009
August, . . . . .	2,793	5,725	8,518	1,911	4,231	6,142
September, . . . . .	2,949	6,312	9,261	1,982	4,708	6,685
October, . . . . .	3,186	6,733	9,919	2,031	5,164	7,195
November, . . . . .	3,016	6,444	9,460	2,007	5,083	7,090
December, . . . . .	3,037	6,215	9,252	1,964	4,792	6,756
During the entire year,* . .	714	1,352	2,066	266	309	575

\* 40 establishments in 1892; 24 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$3,697,186	\$3,101,421	-\$595,765	-16.11
Average yearly earnings, . . . . .	400.09	411.11	+11.02	+2.75

## CLOTHING — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	112	1,319	1,431	102	1,219	1,321
\$5 but under \$6, . . . . .	91	1,017	1,108	90	965	1,055
\$6 but under \$7, . . . . .	141	1,199	1,340	173	1,126	1,299
\$7 but under \$8, . . . . .	148	982	1,130	128	963	1,091
\$8 but under \$9, . . . . .	161	810	971	166	845	1,011
\$9 but under \$10, . . . . .	247	517	764	207	545	752
\$10 but under \$12, . . . . .	296	370	666	285	446	731
\$12 but under \$15, . . . . .	523	184	707	445	251	696
\$15 but under \$20, . . . . .	550	46	596	556	44	600
\$20 and over, . . . . .	480	8	488	392	8	400
TOTALS, . . . . .	2,749	6,452	9,201	2,544	6,412	8,956

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	73.50	63.57	-9.93	-13.51
Average number of days in operation, . . .	296.97	279.53	-17.44	-5.87

COOKING, LIGHTING, AND HEATING APPARATUS.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	36	36	=	=
Number of private firms, . . . . .	20	20	=	=
Number of partners, . . . . .	35	33	-2	-5.71
Males, . . . . .	33	31	-2	-6.06
Females, . . . . .	1	-	-1	-100.00
Special, . . . . .	1	1	=	=
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	16	16	=	=
Number of stockholders, . . . . .	369	380	+11	+2.98
Males, . . . . .	296	285	-11	-3.72
Females, . . . . .	65	86	+21	+32.31
Banks, trustees, etc., . . . . .	8	9	+1	+12.50
Aggregates: partners and stockholders, .	404	413	+9	+2.23

COOKING, LIGHTING, AND HEATING APPARATUS — 1892, 1893  
— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$2,608,627	\$2,538,827	—\$69,800	—2.68

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$1,113,993	\$957,000	—\$156,993	—14.09

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$3,414,780	\$3,202,477	—\$212,303	—6.22

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,256	2,076	—180	—7.98
Smallest number, . . . . .	1,773	1,410	—363	—20.47
Greatest number, . . . . .	2,463	2,443	—20	—0.81
Excess of greatest over smallest number, .	690	1,033	+343	+49.71

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,851	—	1,851	1,845	—	1,845
February, . . . . .	2,123	—	2,123	2,033	—	2,033
March, . . . . .	2,217	—	2,217	2,215	—	2,215
April, . . . . .	2,262	—	2,262	2,229	—	2,229
May, . . . . .	2,312	—	2,312	2,200	—	2,200
June, . . . . .	2,312	—	2,312	2,124	—	2,124
July, . . . . .	2,162	—	2,162	1,913	—	1,913

COOKING, LIGHTING, AND HEATING APPARATUS — 1892, 1893  
— Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	2,350	-	2,350	1,907	-	1,907
September, . . . . .	2,427	-	2,427	2,055	-	2,055
October, . . . . .	2,426	-	2,426	2,196	-	2,196
November, . . . . .	2,353	-	2,353	2,140	-	2,140
December, . . . . .	2,266	-	2,266	2,035	-	2,035
During the entire year,* . . . . .	365	-	365	82	-	82

\* 5 establishments in 1892; 3 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,406,106	\$1,300,806	—\$105,300	—7.49
Average yearly earnings, . . . . .	623.27	626.59	+3.32	+0.53

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	59	-	59	85	-	85
\$5 but under \$6, . . . . .	23	-	23	66	-	66
\$6 but under \$7, . . . . .	55	-	55	82	-	82
\$7 but under \$8, . . . . .	88	-	88	118	-	118
\$8 but under \$9, . . . . .	88	-	88	91	-	91
\$9 but under \$10, . . . . .	374	-	374	317	-	317
\$10 but under \$12, . . . . .	330	-	330	332	-	332
\$12 but under \$15, . . . . .	460	-	460	477	-	477
\$15 but under \$20, . . . . .	432	-	432	468	-	468
\$20 and over, . . . . .	403	-	403	380	-	380
TOTALS, . . . . .	2,317	-	2,317	2,416	-	2,416

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	72.94	62.06	—10.88	—14.92
Average number of days in operation, . . . . .	281.07	265.50	—15.57	—5.54

**CORDAGE AND TWINE. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	27	27	=	=
Number of private firms, . . . . .	14	14	=	=
Number of partners, . . . . .	22	22	=	=
Males, . . . . .	20	19	-1	-5.00
Special, . . . . .	2	2	=	=
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	13	13	=	=
Number of stockholders, . . . . .	296	299	+3	+1.01
Males, . . . . .	209	205	-4	-1.91
Females, . . . . .	78	85	+7	+8.97
Banks, trustees, etc., . . . . .	9	9	=	=
Aggregates: partners and stockholders, .	318	321	+3	+0.94

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$5,022,559	\$6,160,346	+\$1,137,787	+22.65

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$6,462,752	\$6,225,632	-\$237,120	-3.70

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$8,722,796	\$8,144,201	-\$578,595	-6.63

## CORDAGE AND TWINE—1892, 1893—Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	3,415	3,286	-129	-3.73
Smallest number, . . . . .	2,578	2,695	+117	+4.54
Greatest number, . . . . .	4,111	3,820	-291	-7.03
Excess of greatest over smallest number, .	1,533	1,125	-408	-26.61

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,838	1,417	3,255	1,980	1,429	3,409
February, . . . . .	2,029	1,445	3,474	1,995	1,441	3,436
March, . . . . .	2,061	1,488	3,549	2,040	1,499	3,539
April, . . . . .	2,141	1,492	3,633	2,132	1,562	3,694
May, . . . . .	2,129	1,486	3,615	2,074	1,564	3,638
June, . . . . .	1,991	1,433	3,424	2,083	1,493	3,576
July, . . . . .	2,034	1,372	3,406	1,907	1,268	3,175
August, . . . . .	2,026	1,375	3,401	1,638	1,197	2,835
September, . . . . .	1,788	1,279	3,067	1,691	1,249	2,940
October, . . . . .	1,831	1,305	3,136	1,737	1,198	2,935
November, . . . . .	2,095	1,369	3,464	1,854	1,196	3,050
December, . . . . .	2,150	1,355	3,535	1,881	1,257	3,138
During the entire year,* . .	23	46	69	1	-	1

\* 4 establishments in 1892; 1 establishment in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,200,192	\$1,149,812	-\$50,380	-4.20
Average yearly earnings, . . . . .	351.45	349.91	-1.54	-0.44



## CORDAGE AND TWINE — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	211	671	882	187	691	878
\$5 but under \$6, . . . . .	207	414	621	135	492	627
\$6 but under \$7, . . . . .	316	311	627	196	204	400
\$7 but under \$8, . . . . .	153	105	258	147	174	321
\$8 but under \$9, . . . . .	606	58	664	962	41	1,003
\$9 but under \$10, . . . . .	598	15	613	171	24	195
\$10 but under \$12, . . . . .	174	2	176	159	4	163
\$12 but under \$15, . . . . .	184	5	189	128	3	131
\$15 but under \$20, . . . . .	122	-	122	78	-	78
\$20 and over, . . . . .	30	-	30	29	-	29
TOTALS, . . . . .	2,601	1,581	4,182	2,192	1,633	3,825

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	74.70	65.07	-9.63	-12.89
Average number of days in operation, . . . . .	295.19	284.08	-11.11	-3.76

## CORKS, BUNGS, AND TAPS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . . . .	3	3	=	=
Number of private firms, . . . . .	3	3	=	=
Number of partners, . . . . .	4	4	=	=
Males, . . . . .	4	4	=	=

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$28,500	\$20,500	-\$8,000	-28.07

## CORKS, BUNGS, AND TAPS — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$15,449	\$13,642	—\$1,807	—11.70

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$41,677	\$40,512	—\$1,165	—2.80

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	37	32	—5	—13.51
Smallest number, . . . . .	34	26	—8	—23.53
Greatest number, . . . . .	39	38	—1	—2.56
Excess of greatest over smallest number, .	5	12	+7	+140.00

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	30	6	36	25	8	33
February, . . . . .	30	6	36	27	7	34
March, . . . . .	31	5	36	26	7	33
April, . . . . .	32	5	37	30	7	37
May, . . . . .	33	4	37	28	7	35
June, . . . . .	34	5	39	28	6	34
July, . . . . .	33	5	38	29	6	35

## CORKS, BUNGS, AND TAPS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	33	4	37	27	6	33
September, . . . . .	33	4	37	25	6	31
October, . . . . .	32	4	36	22	5	27
November, . . . . .	30	4	34	23	5	28
December, . . . . .	30	6	36	22	4	26
During the entire year,* . . . . .	15	-	15	-	-	-

\* 1 establishment in 1892.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$11,066	\$9,706	-\$1,360	-12.29
Average yearly earnings, . . . . .	299.08	303.31	+4.23	+1.41

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	5	6	11	6	5	11
\$5 but under \$6, . . . . .	2	-	2	4	-	4
\$6 but under \$7, . . . . .	3	-	3	3	2	5
\$7 but under \$8, . . . . .	2	-	2	2	-	2
\$8 but under \$9, . . . . .	7	-	7	3	-	3
\$9 but under \$10, . . . . .	6	-	6	1	-	1
\$10 but under \$12, . . . . .	6	-	6	7	-	7
\$12 but under \$15, . . . . .	1	-	1	3	-	3
\$15 but under \$20, . . . . .	2	-	2	2	-	2
\$20 and over, . . . . .	-	-	-	-	-	-
TOTALS, . . . . .	34	6	40	31	7	38

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	57.00	53.33	+1.33	+2.33
Average number of days in operation, . . . . .	293.32	296.00	-2.32	-0.73

## COTTON GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	149	149	=	=
Number of private firms, . . . . .	34	33	-1	-2.94
Number of partners, . . . . .	73	63	-10	-13.70
Males, . . . . .	66	54	-12	-18.18
Females, . . . . .	6	6	=	=
Estates, . . . . .	1	3	+2	+200.00
Number of corporations, . . . . .	115	116	+1	+0.87
Number of stockholders, . . . . .	19,195	19,621	+426	+2.22
Males, . . . . .	9,837	9,600	-147	-1.49
Females, . . . . .	6,981	7,296	+315	+4.51
Banks, trustees, etc., . . . . .	2,377	2,635	+258	+10.85
Aggregates: partners and stockholders, .	19,268	19,684	+416	+2.16

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$119,652,351	\$118,855,744	-\$796,607	-0.67

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$46,961,841	\$47,411,932	+\$450,091	+0.96
Cotton, raw . . . . .	31,871,253	31,980,708	+109,455	+0.34
Cotton, raw (Egyptian), . . . . .	457,380	491,357	+33,977	+7.43
Cotton, raw (Sea Island), . . . . .	308,667	356,192	+47,525	+15.40
Yarn, cotton . . . . .	2,032,381	1,641,359	-391,022	-19.24
Not classified in detail, . . . . .	12,292,160	12,942,316	+650,156	+5.29

## COTTON GOODS — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percentages
Cotton, raw . . . . .	100 pounds	3,719,853	3,574,983	-144,870	-3.89
Cotton, raw (Egyptian), . . .	100 pounds	38,954	43,881	+4,927	+12.65
Cotton, raw (Sea Island), . . .	100 pounds	16,222	16,040	-182	-1.12
Yarn, cotton . . . . .	100 pounds	85,267	68,033	-17,234	-20.21

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Cotton, raw . . . . .	100 pounds	\$8.57	\$8.95	+\$0.38	+4.43
Cotton, raw (Egyptian), . . .	100 pounds	11.74	11.20	-0.54	-4.60
Cotton, raw (Sea Island), . . .	100 pounds	19.03	22.21	+3.18	+16.71
Yarn, cotton . . . . .	100 pounds	23.84	24.13	+0.29	+1.22

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percentages
Total value of goods made and work done, . . .	\$90,811,928	\$88,189,618	-\$2,622,310	-2.89
Batting, . . . . .	89,128	82,358	-6,770	-7.60
Cloth, awning . . . . .	320,844	198,713	-122,131	-38.07
Cloth, cotton . . . . .	18,791,191	19,393,821	+602,630	+3.21
Cloth, print . . . . .	10,042,072	10,492,162	+450,090	+4.48
Cloth, printed . . . . .	2,070,296	2,198,851	+128,555	+6.21
Cottonades, . . . . .	374,290	303,179	-69,111	-18.46
Denim, . . . . .	2,675,545	2,823,184	+147,639	+5.52
Dress goods, . . . . .	2,027,952	1,652,395	-375,557	-18.52
Drill, . . . . .	287,632	242,616	-45,016	-15.65
Duck, . . . . .	643,906	614,661	-29,245	-4.54
Flannel, . . . . .	1,965,470	1,874,965	-90,505	-4.60
Gingham, . . . . .	5,203,373	4,353,078	-850,295	-16.34
Quilts, . . . . .	217,400	206,500	-10,900	-5.01
Sheeting, . . . . .	2,057,266	1,918,816	-138,450	-6.73
Shirting, . . . . .	1,636,007	1,526,267	-109,740	-6.71
Thread, . . . . .	2,127,839	2,005,379	-122,460	-5.76
Ticking, . . . . .	517,190	385,673	-131,517	-25.43
Twill, . . . . .	265,681	293,361	+27,680	+10.42
Twine, . . . . .	189,972	147,157	-42,815	-22.54
Warp, . . . . .	909,153	680,592	-228,561	-25.14
Waste, . . . . .	604,433	523,467	-80,966	-13.40
Yarn, . . . . .	7,776,516	6,756,554	-1,019,962	-13.12
Not classified in detail, . . . . .	30,018,772	29,513,869	-504,903	-1.68

## COTTON GOODS — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percentages
Batting, . . . . .	100 pounds	12,513	12,275	—238	—1.90
Cloth, awning . . . . .	100 pounds	12,476	7,966	—4,510	—36.15
Cloth, cotton . . . . .	100 pounds	793,908	760,442	—33,466	—4.22
Cloth, print . . . . .	100 yards	474,075	729,399	+255,324	+53.86
Cloth, print . . . . .	100 pounds	373,953	323,937	—50,016	—13.37
Cloth, printed . . . . .	100 yards	438,671	429,122	—9,549	—2.18
Cottonades, . . . . .	100 pounds	13,633	11,809	—1,824	—13.38
Denim, . . . . .	100 pounds	120,516	129,210	+8,694	+7.21
Dress goods, . . . . .	100 pounds	40,077	32,766	—7,311	—18.24
Drill, . . . . .	100 pounds	20,339	16,536	—3,803	—18.70
Duck, . . . . .	100 pounds	35,345	33,684	—1,661	—4.70
Flannel, . . . . .	100 pounds	95,177	87,740	—7,437	—7.81
Gingham, . . . . .	100 yards	324,591	293,300	—31,291	—9.64
Gingham, . . . . .	100 pounds	72,592	69,025	—3,567	—4.91
Quilts, . . . . .	hundred	3,100	2,950	—150	—4.84
Sheeting, . . . . .	100 pounds	95,573	83,562	—7,011	—7.34
Shirting, . . . . .	100 pounds	54,685	51,982	—2,703	—4.94
Thread, . . . . .	gross spools	707,964½	689,693¼	—18,271¼	—2.53
Ticking, . . . . .	100 pounds	19,063	14,841	—4,222	—22.15
Twill, . . . . .	100 yards	30,423	30,399	—24	—0.08
Twill, . . . . .	100 pounds	2,830	4,633	+1,803	+63.71
Twine, . . . . .	100 pounds	16,670	12,733	—3,937	—23.62
Warp, . . . . .	100 yards	104,161	97,843	—6,318	—6.07
Warp, . . . . .	100 pounds	33,106	24,550	—8,556	—25.84
Waste, . . . . .	100 pounds	161,774	143,386	—21,388	—12.93
Yarn, . . . . .	100 pounds	316,647	288,636	—28,011	—8.85

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Batting, . . . . .	100 pounds	\$7.12	\$6.71	—\$0.41	—5.76
Cloth, awning . . . . .	100 pounds	25.72	24.95	—0.77	—2.99
Cloth, cotton . . . . .	100 pounds	23.67	25.50	+1.83	+7.73
Cloth, print . . . . .	100 yards	3.15	3.31	+0.16	+5.08
Cloth, print . . . . .	100 pounds	22.86	24.94	+2.08	+9.10
Cloth, printed . . . . .	100 yards	4.72	5.12	+0.40	+8.47
Cottonades, . . . . .	100 pounds	27.45	25.84	—1.61	—5.87
Denim, . . . . .	100 pounds	22.20	21.85	—0.35	—1.58
Dress goods, . . . . .	100 pounds	50.60	50.43	—0.17	—0.34
Drill, . . . . .	100 pounds	14.14	14.67	+0.53	+3.75
Duck, . . . . .	100 pounds	18.22	18.25	+0.03	+0.16



COTTON GOODS — 1892, 1893 — Continued.  
GOODS MADE. AVERAGE VALUES — Concluded.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Flannel, . . . . .	100 pounds	\$20.65	\$21.37	+\$0.72	+3.49
Gingham, . . . . .	100 yards	8.09	6.95	-1.14	-14.09
Gingham, . . . . .	100 pounds	35.52	33.52	-2.00	-5.63
Quilts, . . . . .	hundred	70.13	70.00	-0.13	-0.19
Sheeting, . . . . .	100 pounds	21.53	21.67	+0.14	+0.65
Shirting, . . . . .	100 pounds	29.92	29.36	-0.56	-1.87
Thread, . . . . .	gross spools	3.01	2.91	-0.10	-3.32
Tickiug, . . . . .	100 pounds	27.13	25.99	-1.14	-4.20
Twill, . . . . .	100 yards	6.50	5.50	-1.00	-15.38
Twill, . . . . .	100 pounds	24.00	27.23	+3.23	+13.46
Twine, . . . . .	100 pounds	11.40	11.56	+0.16	+1.40
Warp, . . . . .	100 yards	1.75	1.59	-0.16	-9.14
Warp, . . . . .	100 pounds	21.94	21.40	-0.54	-2.46
Waste, . . . . .	100 pounds	3.67	3.65	-0.02	-0.54
Yarn, . . . . .	100 pounds	24.56	23.41	-1.15	-4.68

PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percentages
Average number, . . . . .	73,748	73,540	-208	-0.28
Smallest number, . . . . .	70,886	61,785	-9,101	-12.84
Greatest number, . . . . .	76,442	78,949	+2,507	+3.23
Excess of greatest over smallest number, .	5,556	17,164	+11,608	+208.93

PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1893			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	34,892	33,082	72,974	36,653	39,314	75,967
February, . . . . .	35,142	38,838	73,980	36,839	39,337	76,176
March, . . . . .	35,375	38,707	74,082	37,001	38,401	75,402
April, . . . . .	35,319	38,931	74,250	37,123	39,986	77,109
May, . . . . .	35,338	38,763	74,101	36,960	40,246	77,206
June, . . . . .	35,089	38,518	73,607	36,844	40,029	76,873
July, . . . . .	35,182	38,120	73,302	36,977	39,649	76,626

## COTTON GOODS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	35,401	37,859	73,260	31,688	33,733	65,421
September, . . . . .	35,238	38,163	73,401	29,208	30,857	60,065
October, . . . . .	35,279	38,321	73,600	31,895	37,931	72,826
November, . . . . .	35,303	38,642	73,945	35,340	38,382	73,722
December, . . . . .	35,454	38,939	74,393	35,285	38,105	73,390
During the entire year,* . . . . .	8,906	8,452	17,358	5,561	5,318	10,879

\* 37 establishments in 1892; 20 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$25,515,747	\$25,268,510	—\$247,237	—0.97
Average yearly earnings, . . . . .	345.99	343.60	—2.39	—0.69

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	6,617	11,338	17,955	6,591	11,258	17,849
\$5 but under \$6, . . . . .	3,601	7,670	11,271	3,860	7,570	11,430
\$6 but under \$7, . . . . .	6,113	8,067	14,180	6,235	8,340	14,575
\$7 but under \$8, . . . . .	4,321	5,847	10,168	4,390	5,639	10,029
\$8 but under \$9, . . . . .	3,476	3,486	6,962	3,990	4,166	8,156
\$9 but under \$10, . . . . .	3,919	2,176	6,095	3,978	2,303	6,281
\$10 but under \$12, . . . . .	4,317	1,035	5,352	4,615	1,106	5,721
\$12 but under \$15, . . . . .	2,905	98	3,003	2,894	141	3,035
\$15 but under \$20, . . . . .	1,004	6	1,010	1,103	11	1,114
\$20 and over, . . . . .	539	—	539	523	1	524
TOTALS, . . . . .	36,812	39,723	76,535	38,189	40,525	78,724

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	93.77	86.09	—7.68	—8.19
Average number of days in operation, . . . . .	304.85	282.09	—22.76	—7.47

# COTTON, WOOLLEN, AND OTHER TEXTILES. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	3	3	=	=
Number of private firms, . . . . .	1	1	=	=
Number of partners, . . . . .	3	3	=	=
Males, . . . . .	3	3	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	457	468	+11	+2.41
Males, . . . . .	192	191	-1	-0.52
Females, . . . . .	150	159	+9	+6.00
Banks, trustees, etc., . . . . .	115	118	+3	+2.61
Aggregates: partners and stockholders, .	460	471	+11	+2.39

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$3,564,471	\$3,532,450	-\$32,021	-0.90

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$1,780,097	\$1,461,530	-\$318,567	-17.90

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$3,352,505	\$2,798,118	-\$554,387	-16 54

COTTON, WOOLLEN, AND OTHER TEXTILES — 1892, 1893  
— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,270	1,917	-353	-15.55
Smallest number, . . . . .	2,007	352	-1,655	-82.46
Greatest number, . . . . .	2,472	2,271	-201	-8.13
Excess of greatest over smallest number, .	465	1,919	+1,454	+312.69

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,121	1,143	2,264	1,044	1,170	2,214
February, . . . . .	1,144	1,152	2,296	1,069	1,160	2,229
March, . . . . .	1,094	1,227	2,321	1,022	1,140	2,162
April, . . . . .	1,134	1,252	2,386	986	1,122	2,108
May, . . . . .	1,017	1,257	2,274	957	1,095	2,052
June, . . . . .	1,070	1,224	2,294	944	1,082	2,026
July, . . . . .	939	1,202	2,141	916	1,079	1,995
August, . . . . .	1,005	1,107	2,112	836	1,002	1,838
September, . . . . .	1,013	1,163	2,176	299	129	428
October, . . . . .	998	1,218	2,216	722	990	1,712
November, . . . . .	1,160	1,243	2,403	977	1,161	2,138
December, . . . . .	1,157	1,204	2,361	951	1,147	2,098

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$856,455	\$702,016	-\$154,439	-18.03
Average yearly earnings, . . . . .	377.29	366.21	-11.08	-2.94

**COTTON, WOOLLEN, AND OTHER TEXTILES — 1892, 1893**  
— Concluded.

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	70	185	255	68	126	194
\$5 but under \$6, . . . .	56	373	429	64	352	416
\$6 but under \$7, . . . .	183	391	574	145	245	390
\$7 but under \$8, . . . .	347	207	554	242	264	506
\$8 but under \$9, . . . .	86	99	185	147	138	285
\$9 but under \$10, . . . .	121	38	159	96	75	171
\$10 but under \$12, . . . .	107	5	112	121	23	144
\$12 but under \$15, . . . .	171	1	172	123	6	129
\$15 but under \$20, . . . .	37	2	39	34	-	34
\$20 and over, . . . . .	23	-	23	20	-	20
<b>TOTALS, . . . . .</b>	<b>1,201</b>	<b>1,301</b>	<b>2,502</b>	<b>1,060</b>	<b>1,229</b>	<b>2,289</b>

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	71.67	69.33	-2.34	-3.26
Average number of days in operation, . . .	304.61	255.93	-48.63	-15.93

**CRAYONS, PENCILS, CRUCIBLES, ETC. 1892, 1893.**

**ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	3	3	=	=
Number of private firms, . . . . .	1	1	=	=
Number of partners, . . . . .	2	2	=	=
Males, . . . . .	2	2	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	50	50	=	=
Males, . . . . .	37	35	-2	-5.41
Females, . . . . .	13	15	+2	+15.33
Aggregates: partners and stockholders, .	52	52	=	=

## CRAYONS, PENCILS, CRUCIBLES, ETC. — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$60,000	\$60,000	*=	*=

\* No change.

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$29,639	\$20,923	—\$8,716	—29.41

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$62,054	\$38,843	—\$23,211	—37.40

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	21	18	—3	—14.29
Smallest number, . . . . .	16	15	—1	—6.25
Greatest number, . . . . .	27	22	—5	—18.52
Excess of greatest over smallest number, .	11	7	—4	—36.36

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	23	—	23	22	—	22
February, . . . . .	23	3	26	22	—	22
March, . . . . .	24	—	24	20	—	20
April, . . . . .	26	—	26	20	—	20
May, . . . . .	23	—	23	20	—	20
June, . . . . .	23	—	23	18	—	18
July, . . . . .	19	—	19	16	—	16



## CRAYONS, PENCILS, CRUCIBLES, ETC. — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	19	-	19	15	-	15
September, . . . . .	18	-	18	14	-	14
October, . . . . .	18	-	18	14	-	14
November, . . . . .	17	-	17	16	-	16
December, . . . . .	22	-	22	18	-	18
During the entire year,* . . . .	12	-	12	12	-	12

\* 1 establishment in 1892; 1 establishment in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$10,644	\$7,893	—\$2,751	—25.85
Average yearly earnings, . . . . .	506.86	438.50	—68.36	—13.49

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	2	-	2	6	-	6
\$5 but under \$6, . . . . .	1	3	4	-	-	-
\$6 but under \$7, . . . . .	3	-	3	1	-	1
\$7 but under \$8, . . . . .	1	-	1	-	-	-
\$8 but under \$9, . . . . .	-	-	-	4	-	4
\$9 but under \$10, . . . . .	2	-	2	2	-	2
\$10 but under \$12, . . . . .	4	-	4	2	-	2
\$12 but under \$15, . . . . .	8	-	8	4	-	4
\$15 but under \$20, . . . . .	3	-	3	2	-	2
\$20 and over, . . . . .	1	-	1	1	-	1
TOTALS, . . . . .	25	3	28	22	-	22

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	66.67	53.33	—13.34	—20.01
Average number of days in operation, . . .	284.81	249.89	—34.92	—12.26

## DRUGS AND MEDICINES. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	23	23	=	=
Number of private firms, . . . . .	15	14	-1	-6.67
Number of partners, . . . . .	26	23	-3	-11.54
Males, . . . . .	25	21	-4	-16.00
Females, . . . . .	1	2	+1	+100.00
Number of corporations, . . . . .	8	9	+1	+12.50
Number of stockholders, . . . . .	126	123	-3	-2.38
Males, . . . . .	89	82	-7	-7.87
Females, . . . . .	33	36	+3	+9.09
Banks, trustees, etc., . . . . .	4	5	+1	+25.00
Aggregates: partners and stockholders, .	152	146	-6	-3.95

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$1,286,067	\$1,342,310	+\$56,243	+4.37

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$1,953,196	\$1,606,074	-\$347,122	-17.77

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$3,226,651	\$3,101,935	-\$124,716	-3.87

## DRUGS AND MEDICINES — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	466	440	-26	-5.58
Smallest number, . . . . .	386	367	-19	-4.92
Greatest number, . . . . .	538	505	-33	-6.13
Excess of greatest over smallest number, .	152	138	-14	-9.21

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	248	224	472	232	202	434
February, . . . . .	256	236	492	234	205	439
March, . . . . .	262	244	506	245	215	460
April, . . . . .	257	237	494	262	222	484
May, . . . . .	252	242	494	257	218	475
June, . . . . .	247	217	464	247	212	459
July, . . . . .	236	210	446	233	190	423
August, . . . . .	233	185	418	218	170	388
September, . . . . .	236	212	448	224	199	423
October, . . . . .	235	203	438	219	196	415
November, . . . . .	234	209	443	222	197	419
December, . . . . .	237	206	443	227	192	419
During the entire year,* . .	29	18	47	39	19	58

\* 8 establishments in 1892; 10 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$191,297	\$175,319	-\$15,978	-8.35
Average yearly earnings, . . . . .	410.51	398.45	-12.06	-2.94

## DRUGS AND MEDICINES — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	35	43	78	28	45	73
\$5 but under \$6, . . . .	12	55	67	14	47	61
\$6 but under \$7, . . . .	18	112	130	28	82	110
\$7 but under \$8, . . . .	20	24	44	31	27	58
\$8 but under \$9, . . . .	21	7	28	20	9	29
\$9 but under \$10, . . . .	40	10	50	35	9	44
\$10 but under \$12, . . . .	34	2	36	31	3	34
\$12 but under \$15, . . . .	45	-	45	49	-	49
\$15 but under \$20, . . . .	38	3	41	34	2	36
\$20 and over, . . . . .	10	-	10	12	-	12
TOTALS, . . . . .	273	256	529	282	224	506

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	57.43	55.61	-1.82	-3.17
Average number of days in operation, . . .	302.16	295.33	-6.83	-2.26

## DYESTUFFS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	5	5	=	=
Number of private firms, . . . . .	3	3	=	=
Number of partners, . . . . .	5	5	=	=
Males, . . . . .	4	4	=	=
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	13	16	+3	+23.08
Males, . . . . .	12	14	+2	+16.67
Females, . . . . .	1	1	=	=
Banks, trustees, etc., . . . . .	-	1	+1	-
Aggregates: partners and stockholders, .	18	21	+3	+16.67

## DYESTUFFS — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$622,000	\$626,500	+\$4,500	+0.72

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$684,269	\$422,354	—\$261,915	—38.28

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, . . . . .	\$867,999	\$553,833	—\$314,166	—36.19

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	164	121	—43	—26.22
Smallest number, . . . . .	134	87	—47	—35.07
Greatest number, . . . . .	185	142	—43	—23.24
Excess of greatest over smallest number, . . . . .	51	55	+4	+7.84

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	139	1	140	139	1	140
February, . . . . .	154	1	155	139	1	140
March, . . . . .	156	1	157	140	1	141
April, . . . . .	164	1	165	134	1	135
May, . . . . .	165	1	166	134	1	135
June, . . . . .	168	1	169	104	1	105
July, . . . . .	180	—	180	121	1	122

## DYESTUFFS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	176	-	176	109	1	110
September, . . . . .	178	-	178	100	1	101
October, . . . . .	178	-	178	100	1	101
November, . . . . .	150	-	150	118	2	120
December, . . . . .	153	-	153	93	2	95

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$88,732	\$63,458	—\$25,274	—28.48
Average yearly earnings, . . . . .	541.05	524.45	—16.60	—3.07

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	3	-	3	-	-	-
\$5 but under \$6, . . . . .	1	-	1	-	-	-
\$6 but under \$7, . . . . .	4	-	4	-	2	2
\$7 but under \$8, . . . . .	12	-	12	4	-	4
\$8 but under \$9, . . . . .	7	-	7	1	-	1
\$9 but under \$10, . . . . .	59	-	59	62	-	62
\$10 but under \$12, . . . . .	60	-	60	39	-	39
\$12 but under \$15, . . . . .	25	-	25	25	-	25
\$15 but under \$20, . . . . .	14	-	14	7	-	7
\$20 and over, . . . . .	1	-	1	1	-	1
TOTALS, . . . . .	186	-	186	139	2	141

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	59.00	49.40	—9.60	—16.27
Average number of days in operation, . . .	272.53	252.01	—20.52	—7.53



**EARTHEN, PLASTER, AND STONE WARE. 1892, 1893.**  
**ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	7	7	=	=
Number of private firms, . . . . .	6	6	=	=
Number of partners, . . . . .	10	10	=	=
Males, . . . . .	10	10	=	=
Number of corporations, . . . . .	1	1	=	=
Number of stockholders, . . . . .	14	14	=	=
Males, . . . . .	11	11	=	=
Females, . . . . .	3	3	=	=
Aggregates: partners and stockholders, .	24	24	=	=

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$399,050	\$398,969	—\$81	—0.02

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$92,621	\$87,592	—\$5,029	—5.43

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$348,787	\$324,436	—\$24,351	—6.98

## EARTHEN, PLASTER, AND STONE WARE — 1892, 1893

— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	302	322	+20	+6.62
Smallest number, . . . . .	208	226	+18	+8.65
Greatest number, . . . . .	369	416	+47	+12.74
Excess of greatest over smallest number, .	161	190	+29	+18.01

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	187	24	211	220	27	247
February, . . . . .	208	27	235	245	27	272
March, . . . . .	229	27	256	273	23	301
April, . . . . .	258	25	283	262	29	291
May, . . . . .	299	26	325	311	29	340
June, . . . . .	323	33	356	318	35	353
July, . . . . .	327	34	361	347	44	391
August, . . . . .	325	33	358	346	43	393
September, . . . . .	328	35	363	345	42	387
October, . . . . .	285	37	322	294	42	336
November, . . . . .	259	33	292	256	38	294
December, . . . . .	225	32	257	223	36	259
During the entire year,* . . .	83	14	97	-	-	-

\* 2 establishments in 1892.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$180,625	\$154,837	—\$25,788	—14.28
Average yearly earnings, . . . . .	598.10	480.86	—117.24	—19.60

## EARTHEN, PLASTER, AND STONE WARE — 1892, 1893

— Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	19	30	49	30	26	56
\$5 but under \$6, . . . . .	3	3	6	9	11	20
\$6 but under \$7, . . . . .	19	2	21	18	8	26
\$7 but under \$8, . . . . .	15	1	16	25	1	26
\$8 but under \$9, . . . . .	40	-	40	29	-	29
\$9 but under \$10, . . . . .	52	1	53	61	1	62
\$10 but under \$12, . . . . .	68	-	68	81	1	82
\$12 but under \$15, . . . . .	43	-	43	40	-	40
\$15 but under \$20, . . . . .	41	-	41	32	-	32
\$20 and over, . . . . .	27	-	27	23	-	23
TOTALS, . . . . .	327	37	364	348	48	396

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	66.71	70.57	+3.86	+5.79
Average number of days in operation, . . .	288.63	277.30	-11.33	-3.93

ELECTRICAL APPARATUS AND APPLIANCES.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	15	15	=	=
Number of private firms, . . . . .	8	8	=	=
Number of partners, . . . . .	10	12	+2	+20.00
Males, . . . . .	10	12	+2	+20.00
Number of corporations, . . . . .	7	7	=	=
Number of stockholders, . . . . .	249	246	-3	-1.20
Males, . . . . .	206	193	-13	-6.31
Females, . . . . .	38	43	+5	+13.16
Banks, trustees, etc., . . . . .	4	9	+5	+125.00
Syndicates, . . . . .	1	1	=	=
Aggregates: partners and stockholders, . .	259	253	-1	-0.39

## ELECTRICAL APPARATUS AND APPLIANCES — 1892, 1893

— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$10,772,741	\$10,834,900	+\$62,159	+0.58

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$3,504,241	\$2,423,098	—\$1,081,143	—30.85

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$8,189,605	\$4,813,570	—\$3,376,035	—41.22

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	4,089	3,643	—446	—10.91
Smallest number, . . . . .	3,632	2,340	—1,292	—35.57
Greatest number, . . . . .	4,478	4,622	+144	+3.22
Excess of greatest over smallest number, .	846	2,282	+1,436	+169.74

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	3,570	356	3,926	3,600	331	3,931
February, . . . . .	3,555	365	3,920	3,576	314	3,890
March, . . . . .	3,631	384	4,015	3,739	316	4,055
April, . . . . .	3,803	392	4,195	3,894	323	4,217
May, . . . . .	3,944	412	4,356	3,887	305	4,192
June, . . . . .	3,969	416	4,385	3,797	292	4,089
July, . . . . .	4,009	394	4,403	4,246	294	4,540

ELECTRICAL APPARATUS AND APPLIANCES — 1892, 1893  
— Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	3,924	392	4,316	3,563	255	3,823
September, . . . . .	3,880	390	4,270	2,518	213	2,731
October, . . . . .	3,400	375	3,775	2,758	223	2,986
November, . . . . .	3,317	362	3,679	2,623	215	2,838
December, . . . . .	3,453	347	3,805	2,234	163	2,402
During the entire year,* . .	52	1	53	24	-	24

\* 4 establishments in 1892; 3 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$2,344,009	\$1,601,882	—\$742,127	—31.66
Average yearly earnings, . . . . .	573.25	439.72	—133.53	—23.29

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	201	237	438	186	183	374
\$5 but under \$6, . . . . .	166	39	205	166	31	197
\$6 but under \$7, . . . . .	63	11	79	81	11	92
\$7 but under \$8, . . . . .	520	5	525	346	7	353
\$8 but under \$9, . . . . .	614	4	618	446	3	449
\$9 but under \$10, . . . . .	187	2	189	215	1	216
\$10 but under \$12, . . . . .	514	1	515	518	-	518
\$12 but under \$15, . . . . .	609	-	609	596	1	597
\$15 but under \$20, . . . . .	408	-	408	322	-	322
\$20 and over, . . . . .	36	-	36	41	-	41
TOTALS, . . . . .	3,323	299	3,622	2,917	242	3,159

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	73.00	67.00	—6.00	—8.22
Average number of days in operation, . . .	305.74	266.77	—38.97	—12.75

**ELECTROPLATING. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	9	9	=	=
Number of private firms, . . . . .	9	9	=	=
Number of partners, . . . . .	12	11	-1	-8.33
Males, . . . . .	12	11	-1	-8.33

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$47,600	\$46,100	-\$1,500	-3.15

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$21,971	\$22,927	+\$956	+4.35

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$102,712	\$95,026	-\$7,686	-7.43



## ELECTROPLATING — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	81	79	-2	-2.47
Smallest number, . . . . .	72	60	-12	-16.67
Greatest number, . . . . .	87	102	+15	+17.24
Excess of greatest over smallest number, .	15	42	+27	+180.00

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	75	3	78	75	5	80
February, . . . . .	72	3	75	75	5	80
March, . . . . .	74	4	78	77	5	82
April, . . . . .	74	4	78	80	4	84
May, . . . . .	76	4	80	91	5	96
June, . . . . .	79	4	83	81	5	86
July, . . . . .	79	4	83	72	5	77
August, . . . . .	82	3	85	68	5	73
September, . . . . .	80	3	83	64	5	69
October, . . . . .	76	3	79	64	5	69
November, . . . . .	74	3	77	62	5	67
December, . . . . .	71	3	74	60	5	65
During the entire year,* . . . . .	16	-	16	5	-	5

\* 4 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$40,477	\$39,720	-\$757	-1.87
Average yearly earnings, . . . . .	499.72	502.78	+3.06	+0.61

## ELECTROPLATING — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	3	-	3	7	-	7
\$5 but under \$6, . . . . .	2	-	2	2	-	2
\$6 but under \$7, . . . . .	5	3	8	3	2	5
\$7 but under \$8, . . . . .	4	-	4	5	1	6
\$8 but under \$9, . . . . .	3	1	4	10	-	10
\$9 but under \$10, . . . . .	16	-	16	13	2	15
\$10 but under \$12, . . . . .	15	-	15	11	-	11
\$12 but under \$15, . . . . .	14	-	14	29	-	29
\$15 but under \$20, . . . . .	17	-	17	14	-	14
\$20 and over, . . . . .	2	-	2	2	-	2
TOTALS, . . . . .	81	4	85	96	5	101

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	60.89	53.33	-7.56	-12.42
Average number of days in operation, . . .	290.57	278.96	-11.61	-4.00

EMERY AND SAND PAPER AND CLOTH, ETC.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, 'PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	10	10	=	=
Number of private firms, . . . . .	2	2	=	=
Number of partners, . . . . .	3	3	=	=
Males, . . . . .	3	3	=	=
Number of corporations, . . . . .	8	8	=	=
Number of stockholders, . . . . .	104	105	+1	+0.96
Males, . . . . .	88	87	-1	-1.14
Females, . . . . .	15	17	+2	+13.33
Banks, trustees, etc., . . . . .	1	1	=	=
Aggregates: partners and stockholders, . .	107	108	+1	+0.93

**EMERY AND SAND PAPER AND CLOTH, ETC. — 1892, 1893**  
— Continued.

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$773,853	\$789,965	+\$16,112	+2.08

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$366,566	\$301,649	—\$64,917	—17.71

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$847,758	\$645,339	—\$202,419	—23.88

**PERSONS EMPLOYED.**

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	294	288	—6	—2.04
Smallest number, . . . . .	271	185	—86	—31.73
Greatest number, . . . . .	319	370	+51	+15.99
Excess of greatest over smallest number, .	48	185	+137	+285.42

**PERSONS EMPLOYED: BY MONTHS.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	277	10	287	308	10	318
February, . . . . .	278	10	288	314	12	326
March, . . . . .	285	10	295	308	12	320
April, . . . . .	284	10	294	310	11	321
May, . . . . .	280	10	290	308	11	319
June, . . . . .	284	10	294	311	10	321
July, . . . . .	290	11	301	329	13	342

**EMERY AND SAND PAPER AND CLOTH, ETC. — 1892, 1893**  
— Concluded.

**PERSONS EMPLOYED: BY MONTHS — Concluded.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	293	11	304	275	11	286
September, . . . . .	294	11	305	209	3	212
October, . . . . .	289	11	300	206	10	216
November, . . . . .	285	10	295	204	10	214
December, . . . . .	291	11	302	223	9	232
During the entire year,* . . . . .	60	-	60	-	-	-

\* 3 establishments in 1892.

**WAGES AND EARNINGS.**

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$158,435	\$140,969	—\$17,466	—11.02
Average yearly earnings, . . . . .	538.89	489.48	—49.41	—9.17

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	4	1	5	18	1	19
\$5 but under \$6, . . . . .	3	7	10	12	5	17
\$6 but under \$7, . . . . .	5	1	6	5	4	9
\$7 but under \$8, . . . . .	10	-	10	23	-	23
\$8 but under \$9, . . . . .	5	-	5	36	-	36
\$9 but under \$10, . . . . .	83	1	84	85	1	86
\$10 but under \$12, . . . . .	105	-	105	114	-	114
\$12 but under \$15, . . . . .	46	1	47	48	1	49
\$15 but under \$20, . . . . .	33	-	33	32	-	32
\$20 and over, . . . . .	8	-	8	8	-	8
TOTALS, . . . . .	302	11	313	381	12	393

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	83.10	58.40	—24.70	—29.72
Average number of days in operation, . . . . .	299.48	264.78	—34.70	—11.59

## FANCY ARTICLES, ETC. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	5	5	=	=
Number of private firms, . . . .	4	4	=	=
Number of partners, . . . . .	7	7	=	=
Males, . . . . .	7	7	=	=
Number of corporations, . . . . .	1	1	=	=
Number of stockholders, . . . . .	7	7	=	=
Males, . . . . .	4	4	=	=
Females, . . . . .	3	3	=	=
Aggregates: partners and stockholders, .	14	14	=	=

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$60,000	\$62,468	+\$2,468	+4.11

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$56,879	\$51,945	-\$4,934	-8.67

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$147,641	\$133,810	-\$13,831	-9.37

## FANCY ARTICLES, ETC. — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	105	96	—9	—8.57
Smallest number, . . . . .	98	88	—10	—10.20
Greatest number, . . . . .	115	105	—10	—8.70
Excess of greatest over smallest number, .	17	17	*=	*=

\* No change.

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	30	76	106	30	70	100
February, . . . . .	30	76	106	30	72	102
March, . . . . .	31	75	106	29	73	102
April, . . . . .	30	76	106	28	71	99
May, . . . . .	30	76	106	28	73	101
June, . . . . .	29	69	98	27	66	93
July, . . . . .	31	69	100	27	63	90
August, . . . . .	31	69	100	26	65	91
September, . . . . .	30	72	102	26	67	93
October, . . . . .	31	75	106	27	70	97
November, . . . . .	34	78	112	27	68	95
December, . . . . .	35	79	114	26	67	93
During the entire year,* . . .	13	43	56	—	—	—

\* 2 establishments in 1892.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$40,715	\$36,194	—\$4,521	—11.10
Average yearly earnings, . . . . .	387.76	377.02	—10.74	—2.77



## FANCY ARTICLES, ETC. — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	6	23	29	5	19	24
\$5 but under \$6, . . . .	4	18	22	3	15	18
\$6 but under \$7, . . . .	5	19	24	2	20	22
\$7 but under \$8, . . . .	—	12	12	1	15	16
\$8 but under \$9, . . . .	—	4	4	—	4	4
\$9 but under \$10, . . . .	2	2	4	2	1	3
\$10 but under \$12, . . . .	3	—	3	6	1	7
\$12 but under \$15, . . . .	11	—	11	6	—	6
\$15 but under \$20, . . . .	4	—	4	5	—	5
\$20 and over, . . . . .	—	—	—	—	—	—
TOTALS, . . . . .	35	78	113	30	75	105

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	80.00	69.20	—10.80	—13.50
Average number of days in operation, . . .	292.24	281.06	—11.18	—3.83

## FERTILIZERS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (—), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	5	5	=	=
Number of private firms, . . . . .	5	5	=	=
Number of partners, . . . . .	7	7	=	=
Males, . . . . .	7	7	=	=

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$81,267	\$82,100	+\$833	+1.03

## FERTILIZERS — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$59,089	\$64,739	+\$5,650	+9.56

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$94,204	\$109,801	+\$15,597	+16.56

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	33	31	—2	—6.06
Smallest number, . . . . .	29	23	—6	—20.69
Greatest number, . . . . .	35	36	+1	+2.86
Excess of greatest over smallest number, .	6	13	+7	+116.67

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	34	—	34	35	—	35
February, . . . . .	34	—	34	33	—	33
March, . . . . .	34	—	34	34	—	34
April, . . . . .	35	—	35	35	—	35
May, . . . . .	33	—	33	35	—	35
June, . . . . .	32	—	32	27	—	27
July, . . . . .	30	—	30	25	—	25

## FERTILIZERS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	30	-	30	23	-	23
September, . . . . .	31	-	31	26	-	26
October, . . . . .	34	-	34	30	-	30
November, . . . . .	34	-	34	30	-	30
December, . . . . .	33	-	33	30	-	30
During the entire year,* . . .	13	-	13	8	-	8

\* 1 establishment in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$16,264	\$14,416	—\$1,848	—11.36
Average yearly earnings, . . . . .	492.85	465.03	—27.82	—5.64

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	-	-	-	1	-	1
\$5 but under \$6, . . . . .	-	-	-	-	-	-
\$6 but under \$7, . . . . .	1	-	1	1	-	1
\$7 but under \$8, . . . . .	-	-	-	2	-	2
\$8 but under \$9, . . . . .	7	-	7	8	-	8
\$9 but under \$10, . . . . .	15	-	15	13	-	13
\$10 but under \$12, . . . . .	6	-	6	6	-	6
\$12 but under \$15, . . . . .	5	-	5	4	-	4
\$15 but under \$20, . . . . .	1	-	1	1	-	1
\$20 and over, . . . . .	-	-	-	-	-	-
TOTALS, . . . . .	35	-	35	36	-	36

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	55.00	54.00	—1.00	—1.82
Average number of days in operation, . . .	305.09	302.90	—2.19	—0.72

**FINE ARTS AND TAXIDERMY. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	3	3	=	=
Number of private firms, . . . . .	2	2	=	=
Number of partners, . . . . .	3	3	=	=
Males, . . . . .	3	3	=	=
Number of corporations, . . . . .	1	1	=	=
Number of stockholders, . . . . .	11	10	-1	-9.09
Males, . . . . .	9	9	=	=
Females, . . . . .	1	1	=	=
Banks, trustees, etc., . . . . .	1	-	-1	-100.00
Aggregates: partners and stockholders, .	14	13	-1	-7.14

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$16,500	\$21,500	+\$5,000	+30.30

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$3,375	\$3,145	-\$230	-6.81

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$19,800	\$23,498	+\$3,698	+18.68

## FINE ARTS AND TAXIDERMY — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	12	12	*=	*=
Smallest number, . . . . .	8	10	+2	+25.00
Greatest number, . . . . .	17	18	+1	+5.88
Excess of greatest over smallest number, .	9	8	-1	-11.11

\* No change.

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	9	3	12	12	1	13
February, . . . . .	9	3	12	10	1	11
March, . . . . .	9	3	12	11	2	13
April, . . . . .	9	3	12	10	2	12
May, . . . . .	9	3	12	9	2	11
June, . . . . .	7	2	9	9	2	11
July, . . . . .	7	1	8	9	1	10
August, . . . . .	7	1	8	9	1	10
September, . . . . .	7	3	10	9	1	10
October, . . . . .	10	3	13	12	2	14
November, . . . . .	11	3	14	12	2	14
December, . . . . .	12	3	15	13	2	15

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$9,024	\$7,058	—\$1,966	—21.79
Average yearly earnings, . . . . .	752.00	588.17	—163.83	—21.79

## FINE ARTS AND TAXIDERMY — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	1	1	2	1	1	2
\$5 but under \$6, . . . . .	-	2	2	-	-	-
\$6 but under \$7, . . . . .	-	1	1	1	2	3
\$7 but under \$8, . . . . .	1	-	1	-	-	-
\$8 but under \$9, . . . . .	-	-	-	-	-	-
\$9 but under \$10, . . . . .	-	-	-	2	-	2
\$10 but under \$12, . . . . .	-	-	-	-	-	-
\$12 but under \$15, . . . . .	-	-	-	2	-	2
\$15 but under \$20, . . . . .	10	-	10	7	-	7
\$20 and over, . . . . .	1	-	1	2	-	2
TOTALS, . . . . .	13	4	17	15	3	18

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	90.00	75.00	-15.00	-16.67
Average number of days in operation, . . .	303.50	305.00	+1.50	+0.49

## FLAX, HEMP, JUTE, AND LINEN GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	7	7	=	=
Number of private firms, . . . . .	4	4	=	=
Number of partners, . . . . .	11	11	=	=
Males, . . . . .	11	11	=	=
Number of corporations, . . . . .	3	3	=	=
Number of stockholders, . . . . .	58	63	+5	+8.62
Males, . . . . .	24	27	+3	+12.50
Females, . . . . .	28	27	-1	-3.57
Banks, trustees, etc., . . . . .	6	9	+3	+50.00
Aggregates: partners and stockholders, . .	69	74	+5	+7.25



## FLAX, HEMP, JUTE, AND LINEN GOODS — 1892, 1893

— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$2,581,300	\$2,485,382	—\$95,918	—3.72

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$2,001,258	\$2,135,182	+\$133,924	+6.69

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$2,929,281	\$3,059,759	+\$130,478	+4.45

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,061	2,141	+80	+3.88
Smallest number, . . . . .	1,832	1,951	+119	+6.50
Greatest number, . . . . .	2,250	2,294	+44	+1.96
Excess of greatest over smallest number, .	418	343	—75	—17.94

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	991	868	1,859	1,175	1,069	2,244
February, . . . . .	971	874	1,845	1,175	1,064	2,239
March, . . . . .	1,005	883	1,888	1,178	1,080	2,258
April, . . . . .	1,084	930	2,014	1,165	1,059	2,224
May, . . . . .	1,134	938	2,072	1,154	1,058	2,212
June, . . . . .	1,199	984	2,183	1,156	1,066	2,222
July, . . . . .	1,189	1,010	2,199	1,077	1,044	2,121

## FLAX, HEMP, JUTE, AND LINEN GOODS — 1892, 1893

— Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	1,226	992	2,218	1,079	1,039	2,118
September, . . . . .	1,205	999	2,204	1,090	1,022	2,112
October, . . . . .	1,121	997	2,118	1,006	977	1,983
November, . . . . .	1,086	977	2,063	1,006	968	1,974
December, . . . . .	1,076	967	2,043	1,012	970	1,982
During the entire year,* . . . . .	6	2	8	-	-	-

\* 1 establishment in 1892.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$650,087	\$650,127	+\$40	+0.01
Average yearly earnings, . . . . .	315.42	303.66	-11.76	-3.73

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	227	407	634	236	420	656
\$5 but under \$6, . . . . .	118	319	437	96	389	485
\$6 but under \$7, . . . . .	144	224	368	139	223	362
\$7 but under \$8, . . . . .	220	84	304	187	43	230
\$8 but under \$9, . . . . .	86	18	104	67	9	76
\$9 but under \$10, . . . . .	188	-	188	146	3	149
\$10 but under \$12, . . . . .	98	-	98	76	-	76
\$12 but under \$15, . . . . .	98	-	98	97	-	97
\$15 but under \$20, . . . . .	34	-	34	32	-	32
\$20 and over, . . . . .	3	-	3	2	-	2
TOTALS, . . . . .	1,216	1,052	2,268	1,078	1,087	2,165

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	81.00	76.86	-4.14	-5.11
Average number of days in operation, . . . . .	298.80	259.72	-39.08	-13.08

**FOOD PREPARATIONS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	300	300	=	=
Number of private firms, . . . . .	265	262	-3	-1.13
Number of partners, . . . . .	378	376	-2	-0.53
Males, . . . . .	369	370	+1	+0.27
Females, . . . . .	6	3	-3	-50.00
Special, . . . . .	3	3	=	=
Number of corporations, . . . . .	35	38	+3	+8.57
Number of stockholders, . . . . .	580	595	+15	+2.59
Males, . . . . .	478	486	+8	+1.67
Females, . . . . .	92	94	+2	+2.17
Banks, trustees, etc., . . . . .	5	9	+4	+80.00
Syndicates, . . . . .	5	6	+1	+20.00
Aggregates: partners and stockholders, .	958	971	+13	+1.36

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$17,608,676	\$16,716,000	-\$892,676	-5.07

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$65,810,561	\$63,570,337	-\$2,240,224	-3.40

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$76,627,091	\$74,169,036	-\$2,458,055	-3.21

## FOOD PREPARATIONS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	8,319	7,801	—518	—6.23
Smallest number, . . . . .	6,611	5,932	—679	—10.27
Greatest number, . . . . .	11,135	10,721	—464	—4.15
Excess of greatest over smallest number, .	4,574	4,789	+215	+4.70

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	6,627	1,561	8,188	7,184	1,531	8,715
February, . . . . .	6,915	1,598	8,513	6,081	1,568	7,649
March, . . . . .	6,254	1,647	7,901	5,902	1,627	7,529
April, . . . . .	6,157	1,702	7,859	5,903	1,663	7,571
May, . . . . .	6,219	1,815	8,034	6,015	1,719	7,734
June, . . . . .	6,478	1,879	8,357	6,040	1,740	7,780
July, . . . . .	6,557	1,875	8,432	5,950	1,829	7,779
August, . . . . .	6,664	1,865	8,529	5,889	1,790	7,679
September, . . . . .	6,658	2,018	8,706	5,894	1,933	7,832
October, . . . . .	5,504	2,102	7,606	5,779	1,884	7,663
November, . . . . .	6,395	2,103	8,498	5,737	1,829	7,566
December, . . . . .	6,245	1,923	8,168	5,851	1,694	7,545
During the entire year,* . .	744	111	855	712	135	847

\* 129 establishments in 1892; 123 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$4,086,756	\$3,634,017	—\$402,739	—9.85
Average yearly earnings, . . . . .	491.26	472.25	—19.01	—3.87

## FOOD PREPARATIONS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	235	1,138	1,373	223	981	1,204
\$5 but under \$6, . . . .	167	569	736	158	499	657
\$6 but under \$7, . . . .	371	299	670	405	427	832
\$7 but under \$8, . . . .	305	169	474	308	169	477
\$8 but under \$9, . . . .	400	59	459	362	61	423
\$9 but under \$10, . . . .	2,153	37	2,190	2,408	32	2,440
\$10 but under \$12, . . . .	2,286	25	2,311	1,896	24	1,920
\$12 but under \$15, . . . .	1,649	23	1,672	1,667	17	1,684
\$15 but under \$20, . . . .	1,017	4	1,021	751	1	752
\$20 and over, . . . . .	222	-	222	181	-	181
TOTALS, . . . . .	8,805	2,328	11,133	8,359	2,211	10,570

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	63.27	59.80	-3.47	-5.48
Average number of days in operation, . . .	304.42	298.64	-5.78	-1.90

## FURNITURE. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	121	121	=	=
Number of private firms, . . . . .	110	109	-1	-0.91
Number of partners, . . . . .	197	193	-4	-2.03
Males, . . . . .	186	182	-4	-2.15
Females, . . . . .	5	5	=	=
Special, . . . . .	5	5	=	=
Estates, . . . . .	1	1	=	=
Number of corporations, . . . . .	11	12	+1	+9.09
Number of stockholders, . . . . .	342	356	+14	+4.09
Males, . . . . .	233	200	-33	-14.16
Females, . . . . .	109	111	+2	+1.83
Banks, trustees, etc., . . . . .	-	45	+45	-
Aggregates: partners and stockholders, . .	539	549	+10	+1.86

## FURNITURE — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$5,436,654	\$5,386,102	—\$50,552	—0.93

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$4,654,391	\$4,085,338	—\$569,053	—12.23

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$8,693,460	\$7,698,186	—\$995,274	—11.45

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	4,095	3,633	—462	—11.28
Smallest number, . . . . .	3,568	2,901	—667	—18.69
Greatest number, . . . . .	4,617	4,270	—347	—7.52
Excess of greatest over smallest number, .	1,049	1,369	+320	+30.51

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	3,500	419	3,919	3,440	411	3,851
February, . . . . .	3,545	406	3,951	3,454	405	3,859
March, . . . . .	3,734	419	4,153	3,449	425	3,874
April, . . . . .	3,768	434	4,202	3,493	438	3,931
May, . . . . .	3,736	434	4,170	3,476	444	3,920
June, . . . . .	3,721	439	4,160	3,476	438	3,914
July, . . . . .	3,560	391	3,951	3,198	365	3,563



**FURNITURE — 1892, 1893 — Concluded.**  
**PERSONS EMPLOYED: BY MONTHS — Concluded.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	3,548	389	3,937	2,999	364	3,363
September, . . . . .	3,728	423	4,151	2,904	378	3,282
October, . . . . .	3,743	437	4,180	3,062	383	3,445
November, . . . . .	3,760	445	4,205	3,007	383	3,390
December, . . . . .	3,607	428	4,035	2,854	335	3,189
During the entire year,* . .	683	53	736	350	5	355

\* 30 establishments in 1892; 18 establishments in 1893.

**WAGES AND EARNINGS.**

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$2,058,842	\$1,757,435	—\$301,407	—14.64
Average yearly earnings, . . . . .	502.77	483.74	—19.03	—3.79

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	203	104	307	115	102	217
\$5 but under \$6, . . . . .	135	49	184	136	53	189
\$6 but under \$7, . . . . .	147	69	216	151	95	246
\$7 but under \$8, . . . . .	239	86	325	255	70	325
\$8 but under \$9, . . . . .	299	63	362	284	63	347
\$9 but under \$10, . . . . .	511	51	562	611	35	646
\$10 but under \$12, . . . . .	818	56	874	714	47	761
\$12 but under \$15, . . . . .	900	7	907	813	6	819
\$15 but under \$20, . . . . .	660	1	661	521	4	525
\$20 and over, . . . . .	126	1	127	94	—	94
TOTALS, . . . . .	4,038	487	4,525	3,694	475	4,169

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	68.12	58.82	—9.30	—13.65
Average number of days in operation, . .	297.67	286.37	—11.30	—3.80

## GLASS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . . . .	8	8	=	=
Number of private firms, . . . . .	6	6	=	=
Number of partners, . . . . .	8	8	=	=
Males, . . . . .	7	7	=	=
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	26	29	+3	+11.54
Males, . . . . .	25	27	+2	+8.00
Females, . . . . .	1	1	=	=
Banks, trustees, etc., . . . . .	-	1	+1	-
Aggregates: partners and stockholders, . . . . .	34	37	+3	+8.82

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$499,500	\$530,500	+\$31,000	+6.21

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$126,033	\$91,514	-\$34,524	-27.39

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, . . . . .	\$549,462	\$444,924	-\$104,538	-19.03

## GLASS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	501	348	-153	-30.54
Smallest number, . . . . .	422	248	-174	-41.23
Greatest number, . . . . .	561	432	-129	-22.99
Excess of greatest over smallest number, .	139	184	+45	+32.37

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	443	27	470	381	25	409
February, . . . . .	445	27	472	377	25	402
March, . . . . .	454	29	483	379	26	405
April, . . . . .	453	29	482	388	26	414
May, . . . . .	453	29	482	386	26	412
June, . . . . .	443	29	472	375	24	399
July, . . . . .	434	29	463	254	15	269
August, . . . . .	468	33	501	251	15	266
September, . . . . .	506	36	542	267	16	283
October, . . . . .	507	36	543	290	16	306
November, . . . . .	514	35	549	290	16	306
December, . . . . .	512	36	548	289	15	304
During the entire year,* . . . .	-	-	-	18	-	18

\* 1 establishment in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$273,077	\$211,521	-\$61,556	-22.54
Average yearly earnings, . . . . .	545.06	607.82	+62.76	+11.51

## GLASS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	56	26	82	43	14	57
\$5 but under \$6, . . . .	32	4	36	22	4	26
\$6 but under \$7, . . . .	32	4	36	21	5	26
\$7 but under \$8, . . . .	35	-	35	24	1	25
\$8 but under \$9, . . . .	20	-	20	33	-	33
\$9 but under \$10, . . . .	24	1	25	27	1	28
\$10 but under \$12, . . . .	36	1	37	54	1	55
\$12 but under \$15, . . . .	62	-	62	59	-	59
\$15 but under \$20, . . . .	140	-	140	84	-	84
\$20 and over, . . . . .	77	-	77	40	-	40
TOTALS, . . . . .	514	36	550	407	26	433

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	71.88	67.88	-4.00	-5.56
Average number of days in operation, . . .	294.11	242.32	-51.79	-17.61

## GLUE, ISINGLASS, AND STARCH. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	18	18	=	=
Number of private firms, . . . . .	14	14	=	=
Number of partners, . . . . .	27	29	+2	+7.41
Males, . . . . .	25	26	+1	+4.00
Females, . . . . .	1	2	+1	+100.00
Estates, . . . . .	1	1	=	=
Number of corporations, . . . . .	4	4	=	=
Number of stockholders, . . . . .	38	39	+1	+2.63
Males, . . . . .	35	35	=	=
Females, . . . . .	3	4	+1	+33.33
Aggregates: partners and stockholders, . .	65	68	+3	+4.62

## GLUE, ISINGLASS, AND STARCH — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$1,144,132	\$1,125,446	—\$18,686	—1.63

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$701,027	\$747,412	+\$46,385	+6.62

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,163,977	\$1,234,525	+\$120,548	+10.36

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	438	428	—10	—2.28
Smallest number, . . . . .	393	355	—38	—9.67
Greatest number, . . . . .	661	629	—32	—4.84
Excess of greatest over smallest number, .	268	274	+6	+2.24

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	550	60	610	554	64	618
February, . . . . .	559	63	622	552	64	616
March, . . . . .	507	66	573	466	58	524
April, . . . . .	402	53	455	390	44	434
May, . . . . .	386	47	433	395	36	431
June, . . . . .	291	32	323	311	26	337
July, . . . . .	273	21	294	258	17	275

## GLUE, ISINGLASS, AND STARCH — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	224	16	240	218	10	228
September, . . . . .	228	21	249	242	15	257
October, . . . . .	362	38	400	384	35	419
November, . . . . .	400	44	444	364	47	411
December, . . . . .	536	61	597	491	53	544
During the entire year,* . . . . .	7	-	7	6	-	6

\* 1 establishment in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$196,269	\$192,927	-\$3,342	-1.70
Average yearly earnings, . . . . .	448.10	450.76	+2.66	+0.59

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	2	38	40	2	27	29
\$5 but under \$6, . . . . .	19	2	21	6	1	7
\$6 but under \$7, . . . . .	36	2	38	20	2	22
\$7 but under \$8, . . . . .	69	20	89	87	18	105
\$8 but under \$9, . . . . .	92	1	93	99	2	101
\$9 but under \$10, . . . . .	145	-	145	129	-	129
\$10 but under \$12, . . . . .	150	-	150	169	-	169
\$12 but under \$15, . . . . .	47	-	47	44	-	44
\$15 but under \$20, . . . . .	20	-	20	25	-	25
\$20 and over, . . . . .	2	-	2	4	-	4
TOTALS, . . . . .	582	63	645	585	50	635

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	76.50	70.22	-6.28	-8.21
Average number of days in operation, . . . . .	234.06	232.85	-1.21	-0.52



**HAIR WORK (ANIMAL AND HUMAN). 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	9	9	=	=
Number of private firms, . . . . .	9	9	=	=
Number of partners, . . . . .	9	9	=	=
Males, . . . . .	8	8	=	=
Females, . . . . .	1	1	=	=

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$204,500	\$224,500	+\$20,000	+9.78

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$416,316	\$277,225	-\$139,091	-33.41

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$644,148	\$474,300	-\$169,848	-26.37

**PERSONS EMPLOYED.**

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	199	183	-16	-8.04
Smallest number, . . . . .	172	157	-15	-8.72
Greatest number, . . . . .	224	213	-11	-4.91
Excess of greatest over smallest number, .	52	56	+4	+7.69

## HAIR WORK (ANIMAL AND HUMAN) — 1892, 1893 — Continued.

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	90	98	188	98	104	202
February, . . . . .	91	104	195	100	97	197
March, . . . . .	102	103	205	100	103	203
April, . . . . .	97	103	200	100	108	208
May, . . . . .	99	103	202	90	94	184
June, . . . . .	99	92	191	89	96	185
July, . . . . .	99	95	194	87	91	178
August, . . . . .	97	104	201	83	89	172
September, . . . . .	91	106	197	79	85	164
October, . . . . .	91	108	199	77	90	167
November, . . . . .	91	112	203	75	88	163
December, . . . . .	88	113	201	76	86	162
During the entire year,* . . . . .	3	31	34	2	8	10

\* 4 establishments in 1892; 3 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$76,288	\$62,835	—\$13,453	—17.63
Average yearly earnings, . . . . .	383.36	343.36	—40.00	—10.43

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	9	33	42	13	81	94
\$5 but under \$6, . . . . .	4	53	57	3	5	8
\$6 but under \$7, . . . . .	4	8	12	5	5	10
\$7 but under \$8, . . . . .	5	5	10	11	3	14
\$8 but under \$9, . . . . .	4	3	7	5	2	7
\$9 but under \$10, . . . . .	10	1	11	26	5	31
\$10 but under \$12, . . . . .	25	6	31	27	3	30
\$12 but under \$15, . . . . .	31	—	31	10	1	11
\$15 but under \$20, . . . . .	15	—	15	4	1	5
\$20 and over, . . . . .	3	—	3	1	—	1
TOTALS, . . . . .	110	109	219	105	106	211

## HAIR WORK (ANIMAL AND HUMAN) — 1892, 1893 — Concluded.

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	58.33	48.11	-10.22	-17.52
Average number of days in operation, . .	299.02	278.00	-21.02	-7.03

## HOSE: RUBBER, LINEN, ETC. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	3	3	=	=
Number of private firms, . . . . .	1	1	=	=
Number of partners, . . . . .	1	1	=	=
Males, . . . . .	1	1	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	94	112	+18	+19.15
Males, . . . . .	77	86	+9	+11.69
Females, . . . . .	12	21	+9	+75.00
Banks, trustees, etc., . . . . .	5	5	=	=
Aggregates: partners and stockholders, .	95	113	+18	+18.95

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$755,681	\$705,000	-\$50,681	-6.71

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$535,135	\$454,036	-\$81,099	-15.15

## HOSE: RUBBER, LINEN, ETC. — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$838,650	\$786,483	—\$52,167	—6.22

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	240	283	+43	+17.92
Smallest number, . . . . .	200	210	+10	+5.00
Greatest number, . . . . .	293	363	+70	+23.89
Excess of greatest over smallest number, .	93	153	+60	+64.52

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	194	50	244	252	57	309
February, . . . . .	202	52	254	264	61	325
March, . . . . .	208	52	260	274	53	327
April, . . . . .	200	49	249	309	52	361
May, . . . . .	186	51	237	284	41	325
June, . . . . .	183	48	231	278	46	324
July, . . . . .	184	43	227	218	45	263
August, . . . . .	175	34	209	172	38	210
September, . . . . .	167	34	201	181	34	215
October, . . . . .	180	35	215	187	35	222
November, . . . . .	227	38	265	193	43	236
December, . . . . .	240	48	288	223	53	276

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$96,658	\$106,435	+\$9,777	+10.12
Average yearly earnings, . . . . .	402.74	376.10	—26.64	—6.61

## HOSE: RUBBER, LINEN, ETC. — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	13	30	43	31	28	59
\$5 but under \$6, . . . . .	16	19	35	11	16	27
\$6 but under \$7, . . . . .	8	7	15	6	5	11
\$7 but under \$8, . . . . .	13	4	17	7	3	10
\$8 but under \$9, . . . . .	23	-	23	24	-	24
\$9 but under \$10, . . . . .	39	1	40	34	-	34
\$10 but under \$12, . . . . .	40	2	42	33	2	35
\$12 but under \$15, . . . . .	39	1	40	49	1	50
\$15 but under \$20, . . . . .	31	-	31	39	-	39
\$20 and over, . . . . .	8	-	8	9	-	9
TOTALS, . . . . .	230	64	294	243	55	298

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	75.00	56.67	-18.33	-24.44
Average number of days in operation, . . .	295.21	274.42	-20.79	-7.04

## HOSIERY AND KNIT GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	42	42	=	=
Number of private firms, . . . . .	27	28	+1	+3.70
Number of partners, . . . . .	50	46	-4	-8.00
Males, . . . . .	48	43	-5	-10.42
Females, . . . . .	2	3	+1	+50.00
Number of corporations, . . . . .	15	14	-1	-6.67
Number of stockholders, . . . . .	1,166	1,214	+48	+4.12
Males, . . . . .	584	595	+11	+1.88
Females, . . . . .	355	383	+28	+7.89
Banks, trustees, etc., . . . . .	226	235	+9	+3.98
Syndicates, . . . . .	1	1	=	=
Aggregates: partners and stockholders, . .	1,216	1,260	+44	+3.62

## HOSIERY AND KNIT GOODS — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$3,590,745	\$4,515,560	+\$924,815	+25.76

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$3,079,140	\$2,763,655	—\$315,485	—10.25

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$5,913,402	\$5,216,381	—\$697,021	—11.79

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	4,711	4,757	+46	+0.98
Smallest number, . . . . .	3,820	3,685	—135	—3.53
Greatest number, . . . . .	5,771	5,733	—38	—0.66
Excess of greatest over smallest number, .	1,951	2,048	+97	+4.97

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,355	3,757	5,112	1,426	3,837	5,263
February, . . . . .	1,342	3,651	4,993	1,461	3,888	5,349
March, . . . . .	1,262	3,551	4,813	1,485	4,066	5,551
April, . . . . .	1,244	3,411	4,655	1,513	3,972	5,485
May, . . . . .	1,254	3,330	4,584	1,444	3,822	5,266
June, . . . . .	1,234	3,222	4,456	1,398	3,638	5,036
July, . . . . .	1,243	2,974	4,217	1,345	3,359	4,704



## HOSIERY AND KNIT GOODS—1892, 1893—Concluded.

## PERSONS EMPLOYED: BY MONTHS—Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	1,219	2,991	4,210	1,082	2,765	3,847
September, . . . . .	1,244	3,137	4,381	1,027	2,803	3,830
October, . . . . .	1,350	3,525	4,875	1,112	3,084	4,196
November, . . . . .	1,415	3,708	5,123	1,113	3,147	4,260
December, . . . . .	1,387	3,728	5,115	1,150	3,144	4,294
During the entire year,* . .	5	53	58	14	16	30

\* 2 establishments in 1892; 4 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,632,068	\$1,525,238	—\$106,830	—6.55
Average yearly earnings, . . . . .	346.44	320.63	—25.81	—7.45

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	184	1,360	1,544	232	1,210	1,442
\$5 but under \$6, . . . . .	142	849	991	105	806	911
\$6 but under \$7, . . . . .	365	817	1,182	283	952	1,235
\$7 but under \$8, . . . . .	173	591	764	208	616	824
\$8 but under \$9, . . . . .	120	308	428	101	331	432
\$9 but under \$10, . . . . .	143	152	295	170	192	362
\$10 but under \$12, . . . . .	192	98	290	221	96	317
\$12 but under \$15, . . . . .	153	31	184	147	16	163
\$15 but under \$20, . . . . .	77	3	80	106	6	112
\$20 and over, . . . . .	30	1	31	32	-	32
TOTALS, . . . . .	1,579	4,210	5,789	1,605	4,225	5,830

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	67.36	57.76	—9.60	—14.25
Average number of days in operation, . . .	299.38	281.44	—17.94	—5.99

## INK, MUCILAGE, AND PASTE. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	9	9	=	=
Number of private firms, . . . . .	9	9	=	=
Number of partners, . . . . .	14	13	-1	-7.14
Males, . . . . .	14	13	-1	-7.14

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$294,000	\$293,000	-\$1,000	-0.34

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$149,290	\$142,248	-\$7,042	-4.72

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$426,966	\$412,973	-\$13,993	-3.28

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	113	109	-4	-3.54
Smallest number, . . . . .	64	62	-2	-3.13
Greatest number, . . . . .	138	140	+2	+1.45
Excess of greatest over smallest number, .	74	78	+4	+5.41

## INK, MUCILAGE, AND PASTE—1892, 1893—Continued.

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	38	27	65	40	27	67
February, . . . . .	38	27	65	40	26	66
March, . . . . .	76	59	135	78	58	136
April, . . . . .	77	61	138	78	60	138
May, . . . . .	77	61	138	78	61	139
June, . . . . .	75	61	136	78	60	138
July, . . . . .	74	55	129	72	52	124
August, . . . . .	75	56	131	72	50	122
September, . . . . .	76	60	136	73	53	126
October, . . . . .	77	60	137	74	53	127
November, . . . . .	40	28	68	39	24	63
December, . . . . .	40	28	68	38	24	62
During the entire year,* . . . . .	11	1	12	13	1	14

\* 5 establishments in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$48,763	\$47,766.	—\$1,002	—2.05
Average yearly earnings, . . . . .	431.58	433.22	+6.64	+1.54

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	3	35	38	4	35	39
\$5 but under \$6, . . . . .	7	9	16	7	9	16
\$6 but under \$7, . . . . .	3	5	8	3	5	8
\$7 but under \$8, . . . . .	23	10	33	22	9	31
\$8 but under \$9, . . . . .	5	—	5	5	—	5
\$9 but under \$10, . . . . .	5	1	6	6	1	7
\$10 but under \$12, . . . . .	9	—	9	9	—	9
\$12 but under \$15, . . . . .	11	—	11	9	—	9
\$15 but under \$20, . . . . .	7	1	8	10	1	11
\$20 and over, . . . . .	22	—	22	3	—	3
TOTALS, . . . . .	95	61	156	78	60	138

## INK, MUCILAGE, AND PASTE — 1892, 1893 — Concluded.

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	44.11	41.44	-2.67	-6.05
Average number of days in operation, . .	302.60	291.65	-10.95	-3.62

IVORY, BONE, SHELL, AND HORN GOODS, ETC.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	10	10	=	=
Number of private firms, . . . . .	10	10	=	=
Number of partners, . . . . .	18	18	=	=
Males, . . . . .	16	16	=	=
Females, . . . . .	1	1	=	=
Special, . . . . .	1	-	-1	-100.00
Estates, . . . . .	-	1	+1	-

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$212,183	\$205,600	-\$6,583	-3.10

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$229,988	\$199,222	-\$30,766	-13.38

IVORY, BONE, SHELL, AND HORN GOODS, ETC. — 1892, 1893  
— Continued.

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$473,410	\$428,510	—\$44,900	—9.48

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	434	392	—42	—9.68
Smallest number, . . . . .	381	282	—99	—25.98
Greatest number, . . . . .	501	493	—8	—1.60
Excess of greatest over smallest number, .	120	211	+91	+75.83

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	400	51	451	421	48	469
February, . . . . .	413	52	465	421	49	470
March, . . . . .	423	50	473	434	50	484
April, . . . . .	408	53	461	416	52	468
May, . . . . .	343	50	393	377	49	426
June, . . . . .	370	48	418	357	44	401
July, . . . . .	369	49	418	327	42	369
August, . . . . .	366	47	413	275	37	312
September, . . . . .	368	44	412	217	31	248
October, . . . . .	374	45	419	285	37	322
November, . . . . .	359	45	404	312	38	350
December, . . . . .	400	48	448	332	41	373
During the entire year,* . .	2	2	4	2	2	4

\* 1 establishment in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$176,304	\$157,314	—\$18,990	—10.77
Average yearly earnings, . . . . .	406.23	401.31	—4.92	—1.21

IVORY, BONE, SHELL, AND HORN GOODS, ETC. — 1892, 1893  
— Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	28	9	37	22	9	31
\$5 but under \$6, . . . . .	36	27	63	24	16	40
\$6 but under \$7, . . . . .	44	13	57	34	23	57
\$7 but under \$8, . . . . .	57	2	59	58	5	63
\$8 but under \$9, . . . . .	26	1	27	50	-	50
\$9 but under \$10, . . . . .	57	1	58	68	1	69
\$10 but under \$12, . . . . .	117	1	118	103	1	109
\$12 but under \$15, . . . . .	62	-	62	55	-	55
\$15 but under \$20, . . . . .	19	-	19	19	-	19
\$20 and over, . . . . .	-	-	-	-	-	-
TOTALS, . . . . .	446	54	500	438	55	493

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	76.70	69.90	-6.80	-8.87
Average number of days in operation, . . .	289.06	277.86	-11.20	-3.87

## LEATHER. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	143	148	=	=
Number of private firms, . . . . .	134	131	-3	-2.24
Number of partners, . . . . .	230	225	-5	-2.17
Males, . . . . .	225	219	-6	-2.67
Special, . . . . .	5	5	=	=
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	14	17	+3	+21.43
Number of stockholders, . . . . .	192	240	+48	+25.00
Males, . . . . .	160	193	+33	+20.63
Females, . . . . .	32	43	+11	+34.38
Banks, trustees, etc., . . . . .	-	4	+4	-
Aggregates: partners and stockholders, . .	422	465	+43	+10.19



## LEATHER — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$8,011,549	\$7,963,904	—\$47,645	—0.59

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$11,891,499	\$11,033,354	—\$858,145	—7.22
Bark, hemlock . . . . .	408,796	440,660	+31,864	+7.79
Grease, curriers' . . . . .	92,952	98,992	+6,040	+6.50
Hides (not specified), . . . . .	1,985,523	1,912,136	—73,387	—3.70
Leather:				
Belt, . . . . .	154,210	134,793	—19,417	—12.59
Rough, . . . . .	1,037,714	934,820	—102,894	—9.92
Split (rough), . . . . .	363,967	335,523	—28,444	—7.81
Leather (not specified), . . . . .	307,477	220,835	—86,642	—28.18
Skins:				
Calf, . . . . .	437,920	422,680	—15,240	—3.48
Goat, . . . . .	1,517,376	977,797	—539,579	—35.56
Goat (tanned), . . . . .	595,040	419,573	—175,467	—29.49
Sheep, . . . . .	1,558,770	1,560,586	+1,816	+0.12
Sheep (morocco), . . . . .	152,100	76,050	—76,050	—50.00
Sumac, . . . . .	47,613	42,157	—5,456	—11.46
Not classified in detail, . . . . .	3,232,041	3,456,752	+224,711	+6.95

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percent- ages
Bark, hemlock . . . . .	cords	44,547	48,034	+3,487	+7.83
Grease, curriers' . . . . .	100 pounds	17,130	15,924	—1,206	—7.04
Grease, curriers' . . . . .	barrels	1,420	2,138	+718	+50.56
Hides (not specified), . . . . .	100 pounds	90,661	111,453	+20,792	+22.93
Hides (not specified), . . . . .		635,626	692,417	+56,791	+8.93
Leather:					
Belt, . . . . .	100 pounds	5,077	4,272	—805	—15.86
Rough, . . . . .	sides	574,036	583,204	+9,168	+1.60
Split (rough), . . . . .	100 pounds	38,465	35,956	—2,509	—6.52
Leather (not specified), . . . . .	100 pounds	11,554	9,192	—2,362	—20.44
Skins:					
Calf, . . . . .	dozen	45,787	42,332	—3,455	—7.55
Goat, . . . . .	dozen	250,886	142,879	—108,007	—43.05
Goat (tanned), . . . . .	dozen	80,067	58,571	—21,496	—26.85
Sheep, . . . . .	dozen	380,513 <sup>2</sup> / <sub>3</sub>	365,285	—15,228 <sup>2</sup> / <sub>3</sub>	—4.00
Sheep (morocco), . . . . .	dozen	46,800	23,400	—23,400	—50.00
Sumac, . . . . .	100 pounds	14,960	12,510	—2,450	—16.38

## LEATHER — 1892, 1893 — Continued.

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Bark, hemlock . . . .	cords	\$9.18	\$9.17	—\$0.01	—0.11
Grease, curriers'. . . .	100 pounds	4.23	4.27	+0.04	+0.95
Grease, curriers'. . . .	barrels	14.46	14.47	+0.01	+0.07
Hides (not specified), . .	100 pounds	5.12	4.40	—0.72	—14.06
Hides (not specified), . .	. . .	2.39	2.05	—0.34	—14.23
Leather:					
Belt, . . . . .	100 pounds	30.37	31.55	+1.18	+3.89
Rough, . . . . .	sides	1.81	1.60	—0.21	—11.60
Split (rough), . . . .	100 pounds	9.46	9.33	—0.13	—1.37
Leather (not specified), .	100 pounds	26.61	24.02	—2.59	—9.73
Skins:					
Calf, . . . . .	dozen	9.56	9.98	+0.42	+4.39
Goat, . . . . .	dozen	6.05	6.84	+0.79	+13.06
Goat (tanned), . . . .	dozen	7.43	7.16	—0.27	—3.63
Sheep, . . . . .	dozen	4.10	4.27	+0.17	+4.15
Sheep (morocco), . . . .	dozen	3.25	3.25	*==	*==
Sumac, . . . . .	100 pounds	3.18	3.37	+0.19	+5.97

\* No change in average value.

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percentages
Total value of goods made and work done, .	\$18,644,270	\$15,548,822	—\$3,095,448	—16.60
Belting, leather . . . . .	619,721	560,565	—59,156	—9.55
Leather:				
Belt, . . . . .	257,760	193,205	—64,555	—25.04
Buff, . . . . .	736,086	537,542	—198,544	—26.97
Calfskin, . . . . .	789,225	730,200	—59,025	—7.48
Dongola, . . . . .	296,730	184,645	—112,085	—37.77
Dongola (imitation), . . . .	133,000	88,269	—44,731	—33.63
Glove, . . . . .	89,175	141,000	+51,825	+58.12
Glove-grain, . . . . .	274,000	248,988	—25,012	—9.13
Goatskin, . . . . .	1,375,668	799,188	—586,480	—42.63
Grain, . . . . .	1,236,299	1,118,150	—118,149	—9.56
Kangaroo, . . . . .	52,500	56,000	+3,500	+6.67
Kid, . . . . .	894,830	603,330	—291,500	—32.59
Kip, . . . . .	162,253	151,900	—10,353	—6.38
Sheepskin, . . . . .	1,092,120	839,585	—252,535	—23.12
Split, . . . . .	1,511,868	1,499,165	—12,703	—0.84
Leather (not specified), . . . .	638,578	568,247	—70,331	—11.01
Leather-board, . . . . .	116,441	96,898	—19,543	—16.78
Not classified in detail, . . . . .	8,368,016	7,141,945	—1,226,071	—14.65

**LEATHER — 1892, 1893 — Continued.**  
**GOODS MADE. AGGREGATE QUANTITIES.**

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percentages
Belting, leather . . . .	100 sq. feet	12,277	11,765	—512	—4.17
Leather:					
Belt, . . . . .	100 pounds	4,499	3,376	—1,123	—24.96
Buff, . . . . .	sides	384,664	296,561	—88,103	—22.90
Calfskin, . . . . .	dozen	44,517	41,017	—3,500	—7.86
Dongola, . . . . .	dozen	26,975	18,358	—8,617	—31.94
Dongola (imitation), . . .	100 feet	12,469	8,024	—4,445	—35.65
Glove, . . . . .	sides	61,500	94,000	+32,500	+52.85
Glove-grain, . . . . .	100 feet	31,099	27,892	—3,207	—10.31
Goatskin, . . . . .	dozen	147,925	82,007	—65,918	—44.56
Grain, . . . . .	100 feet	103,272	98,615	—4,657	—4.51
Grain, . . . . .	sides	188,648	197,806	+9,158	+4.85
Kangaroo, . . . . .	dozen	3,500	4,000	+500	+14.29
Kid, . . . . .	dozen	93,170	58,294	—34,876	—37.43
Kip, . . . . .	100 feet	16,425	18,042	+1,617	+9.84
Sheepskin, . . . . .	dozen	197,433	147,240½	—50,192¾	—25.42
Split, . . . . .	100 pounds	97,311	105,071	+7,760	+7.97
Leather (not specified), .	sides	321,724	309,665	—12,059	—3.75
Leather-board, . . . . .	tons	1,412	1,212½	—199½	—14.13

**GOODS MADE. AVERAGE VALUES.**

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Belting, leather . . . . .	100 sq. feet	\$50.48	\$47.65	—\$2.83	—5.61
Leather:					
Belt, . . . . .	100 pounds	57.29	57.23	—0.06	—0.10
Buff, . . . . .	sides	1.91	1.81	—0.10	—5.24
Calfskin, . . . . .	dozen	17.73	17.80	+0.07	+0.39
Dongola, . . . . .	dozen	11.00	10.06	—0.94	—8.55
Dongola (imitation), . . .	100 feet	10.67	11.00	+0.33	+3.09
Glove, . . . . .	sides	1.45	1.50	+0.05	+3.45
Glove-grain, . . . . .	100 feet	8.81	8.93	+0.12	+1.36
Goatskin, . . . . .	dozen	9.30	9.62	+0.32	+3.44
Grain, . . . . .	100 feet	8.27	7.72	—0.55	—6.65
Grain, . . . . .	sides	2.02	1.81	—0.21	—10.40
Kangaroo, . . . . .	dozen	15.00	14.00	—1.00	—6.67
Kid, . . . . .	dozen	9.60	10.35	+0.75	+7.81
Kip, . . . . .	100 feet	9.88	8.42	—1.46	—14.78
Sheepskin, . . . . .	dozen	5.53	5.70	+0.17	+3.07
Split, . . . . .	100 pounds	16.54	14.27	—1.27	—8.17
Leather (not specified), .	sides	1.98	1.84	—0.14	—7.07
Leather-board, . . . . .	tons	82.47	79.92	—2.55	—3.09

## LEATHER — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	5,918	5,602	—316	—5.34
Smallest number, . . . . .	4,853	3,783	—1,070	—22.05
Greatest number, . . . . .	7,038	7,920	+282	+4.01
Excess of greatest over smallest number, .	2,185	3,587	+1,352	+61.88

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	5,337	163	5,500	6,301	191	6,492
February, . . . . .	5,507	162	5,669	6,336	191	6,527
March, . . . . .	5,749	167	5,916	6,433	182	6,620
April, . . . . .	5,726	180	5,906	6,402	231	6,633
May, . . . . .	5,770	180	5,950	6,147	236	6,383
June, . . . . .	5,786	176	5,962	5,731	231	5,962
July, . . . . .	5,786	193	5,979	4,949	145	5,094
August, . . . . .	5,692	198	5,890	4,249	115	4,364
September, . . . . .	5,678	186	5,864	4,130	110	4,290
October, . . . . .	5,762	194	5,956	4,523	127	4,655
November, . . . . .	5,966	204	6,170	4,610	134	4,744
December, . . . . .	6,082	208	6,290	5,005	148	5,153
During the entire year,* . . . . .	474	1	475	117	1	118

\* 27 establishments in 1892; 7 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$3,003,501	\$2,748,051	—\$255,450	—8.51
Average yearly earnings, . . . . .	507.52	490.55	—16.97	—3.34

## LEATHER—1892, 1893—Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	123	49	172	97	55	182
\$5 but under \$6, . . . . .	141	53	194	123	66	194
\$6 but under \$7, . . . . .	347	44	391	280	56	336
\$7 but under \$8, . . . . .	517	30	547	594	27	621
\$8 but under \$9, . . . . .	710	16	726	702	12	714
\$9 but under \$10, . . . . .	1,417	14	1,431	1,538	9	1,547
\$10 but under \$12, . . . . .	1,663	9	1,672	1,652	10	1,662
\$12 but under \$15, . . . . .	1,164	2	1,166	1,199	2	1,201
\$15 but under \$20, . . . . .	565	-	565	494	-	494
\$20 and over, . . . . .	158	-	158	140	-	140
TOTALS, . . . . .	6,805	217	7,022	6,824	267	7,091

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	70.21	60.53	-9.68	-13.97
Average number of days in operation, . . . . .	294.12	279.04	-15.08	-5.13

LIQUORS AND BEVERAGES (NOT SPIRITUOUS).  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . . . .	23	23	=	=
Number of private firms, . . . . .	22	21	-1	-4.55
Number of partners, . . . . .	28	26	-2	-7.14
Males, . . . . .	26	24	-2	-7.69
Females, . . . . .	1	1	=	=
Special, . . . . .	1	1	=	=
Number of corporations, . . . . .	1	2	+1	+100.00
Number of stockholders, . . . . .	32	46	+14	+43.75
Males, . . . . .	24	40	+16	+66.67
Females, . . . . .	8	5	-3	-37.50
Banks, trustees, etc., . . . . .	-	1	+1	-
Aggregates : partners and stockholders, . . . . .	60	72	+12	+20.00



LIQUORS AND BEVERAGES (NOT SPIRITUOUS) — 1892, 1893  
— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$338,205	\$413,432	+\$75,227	+22.24

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$397,236	\$426,336	+\$29,100	+7.33

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$791,568	\$742,636	—\$48,932	—6.18

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	265	247	—18	—6.79
Smallest number, . . . . .	207	181	—26	—12.56
Greatest number, . . . . .	362	373	+11	+3.04
Excess of greatest over smallest number, .	155	192	+37	+23.87

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	211	—	211	186	—	186
February, . . . . .	212	—	212	187	—	187
March, . . . . .	214	—	214	193	—	193
April, . . . . .	228	—	228	213	—	213
May, . . . . .	250	—	250	264	—	264
June, . . . . .	319	—	319	313	—	313
July, . . . . .	346	2	348	344	—	344



LIQUORS AND BEVERAGES (NOT SPIRITUOUS) — 1892, 1893  
— Concluded.

PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	343	2	345	334	—	334
September, . . . . .	293	—	293	295	—	295
October, . . . . .	270	—	270	229	—	229
November, . . . . .	252	—	252	206	—	206
December, . . . . .	224	—	224	189	—	189
During the entire year,* . . . . .	15	—	15	10	—	10

\* 4 establishments in 1892; 3 establishments in 1893.

WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$146,056	\$134,872	—\$11,184	—7.66
Average yearly earnings, . . . . .	551.15	546.04	—5.11	—0.93

CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	7	—	7	3	—	3
\$5 but under \$6, . . . . .	5	2	7	2	—	2
\$6 but under \$7, . . . . .	15	—	15	10	—	10
\$7 but under \$8, . . . . .	8	—	8	15	—	15
\$8 but under \$9, . . . . .	29	—	29	38	—	38
\$9 but under \$10, . . . . .	43	—	43	64	—	64
\$10 but under \$12, . . . . .	33	—	33	78	—	78
\$12 but under \$15, . . . . .	90	—	90	114	—	114
\$15 but under \$20, . . . . .	40	—	40	48	—	48
\$20 and over, . . . . .	22	—	22	26	—	26
TOTALS, . . . . .	297	2	299	398	—	398

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	58.35	52.83	—5.52	—9.46
Average number of days in operation, . . . . .	303.25	302.11	—1.14	—0.38

**LIQUORS: MALT, DISTILLED, AND FERMENTED.  
1892, 1893.**

**ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	53	53	=	=
Number of private firms, . . . . .	44	40	-4	-9.09
Number of partners, . . . . .	83	72	-11	-13.25
Males, . . . . .	77	66	-11	-14.29
Females, . . . . .	6	6	=	=
Number of corporations, . . . . .	9	13	+4	+44.44
Number of stockholders, . . . . .	78	99	+21	+26.92
Males, . . . . .	65	77	+12	+18.46
Females, . . . . .	8	11	+3	+37.50
Banks, trustees, etc., . . . . .	1	7	+6	+600.00
Syndicates, . . . . .	4	4	=	=
Aggregates: partners and stockholders, .	161	171	+10	+6.21

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$7,307,634	\$7,823,013	+\$515,379	+7.05

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$3,519,545	\$3,512,099	-\$7,446	-0.21

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$8,630,909	\$8,878,318	+\$247,409	+2.87

LIQUORS: MALT, DISTILLED, AND FERMENTED — 1892, 1893  
— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	1,206	1,248	+42	+3.48
Smallest number, . . . . .	1,065	1,099	+34	+3.19
Greatest number, . . . . .	1,411	1,461	+50	+3.54
Excess of greatest over smallest number, .	346	362	+16	+4.62

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,081	—	1,081	1,159	—	1,159
February, . . . . .	1,083	—	1,083	1,150	—	1,150
March, . . . . .	1,110	—	1,110	1,148	—	1,148
April, . . . . .	1,134	—	1,134	1,200	—	1,200
May, . . . . .	1,178	—	1,178	1,243	—	1,243
June, . . . . .	1,223	2	1,225	1,301	2	1,303
July, . . . . .	1,290	2	1,292	1,341	2	1,343
August, . . . . .	1,295	2	1,297	1,345	2	1,347
September, . . . . .	1,276	2	1,278	1,315	2	1,317
October, . . . . .	1,283	—	1,283	1,286	—	1,286
November, . . . . .	1,264	—	1,264	1,245	—	1,245
December, . . . . .	1,208	—	1,208	1,185	—	1,185
During the entire year,* . .	240	—	240	195	—	195

\* 12 establishments in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$858,291	\$915,690	+\$57,399	+6.69
Average yearly earnings, . . . . .	711.68	733.73	+22.05	+3.10

LIQUORS: MALT, DISTILLED, AND FERMENTED—1892, 1893  
— Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	4	-	4	2	-	2
\$5 but under \$6, . . . . .	6	-	6	3	-	3
\$6 but under \$7, . . . . .	20	-	20	11	-	11
\$7 but under \$8, . . . . .	19	-	19	9	-	9
\$8 but under \$9, . . . . .	31	-	31	30	-	30
\$9 but under \$10, . . . . .	139	2	141	140	2	142
\$10 but under \$12, . . . . .	182	-	182	157	-	157
\$12 but under \$15, . . . . .	586	-	586	566	-	566
\$15 but under \$20, . . . . .	345	-	345	442	-	442
\$20 and over, . . . . .	63	-	63	86	-	86
TOTALS, . . . . .	1,395	2	1,397	1,446	2	1,448

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	60.85	56.38	-1.47	-7.35
Average number of days in operation, . . .	301.83	301.27	-0.56	-0.19

## LUMBER. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	21	21	=	=
Number of private firms, . . . . .	20	19	-1	-5.00
Number of partners, . . . . .	33	30	-3	-9.09
Males, . . . . .	32	29	-3	-9.38
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	1	2	+1	+100.00
Number of stockholders, . . . . .	37	39	+2	+5.41
Males, . . . . .	20	18	-2	-10.00
Females, . . . . .	14	15	+1	+7.14
Banks, trustees, etc., . . . . .	3	6	+3	+100.00
Aggregates: partners and stockholders, . .	70	69	-1	-1.43

## LUMBER — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$2,324,720	\$2,612,405	+\$287,685	+12.38

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$1,750,490	\$1,744,533	—\$5,957	—0.34

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$2,826,426	\$2,587,980	—\$238,446	—8.44

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	821	870	+49	+5.97
Smallest number, . . . . .	694	706	+12	+1.73
Greatest number, . . . . .	932	1,041	+109	+11.70
Excess of greatest over smallest number, .	238	335	+97	+40.76

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	787	11	798	769	8	777
February, . . . . .	756	11	767	785	7	792
March, . . . . .	775	9	784	875	8	883
April, . . . . .	791	10	801	924	10	934
May, . . . . .	833	11	844	971	9	980
June, . . . . .	813	11	824	894	10	904
July, . . . . .	814	11	825	817	10	827

## LUMBER — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	798	11	809	871	9	880
September, . . . . .	830	11	841	902	11	913
October, . . . . .	826	11	837	837	9	846
November, . . . . .	843	11	854	859	9	868
December, . . . . .	860	11	871	813	8	821
During the entire year,* . . . . .	19	-	19	74	-	74

\* 3 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$384,491	\$381,570	-\$2,921	-0.76
Average yearly earnings, . . . . .	468.32	438.59	-29.73	-6.35

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	13	-	13	45	9	54
\$5 but under \$6, . . . . .	7	-	7	39	-	39
\$6 but under \$7, . . . . .	12	10	22	32	-	32
\$7 but under \$8, . . . . .	53	-	53	63	1	64
\$8 but under \$9, . . . . .	105	-	105	44	-	44
\$9 but under \$10, . . . . .	213	1	214	156	-	156
\$10 but under \$12, . . . . .	158	-	158	147	-	147
\$12 but under \$15, . . . . .	221	-	221	105	-	105
\$15 but under \$20, . . . . .	91	-	91	90	-	90
\$20 and over, . . . . .	20	-	20	17	-	17
TOTALS, . . . . .	893	11	904	738	10	748

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	73.62	69.38	-4.24	-5.76
Average number of days in operation, . . . . .	300.60	255.65	-44.95	-14.95



## MACHINES AND MACHINERY. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	335	335	=	=
Number of private firms, . . . . .	242	239	-3	-1.24
Number of partners, . . . . .	371	357	-14	-3.77
Males, . . . . .	356	338	-18	-5.06
Females, . . . . .	10	11	+1	+10.00
Special, . . . . .	2	1	-1	-50.00
Estates, . . . . .	3	7	+4	+133.33
Number of corporations, . . . . .	93	96	+3	+3.23
Number of stockholders, . . . . .	3,778	4,088	+310	+8.21
Males, . . . . .	2,612	2,744	+132	+5.05
Females, . . . . .	992	1,156	+164	+16.53
Banks, trustees, etc., . . . . .	173	187	+14	+8.09
Syndicates, . . . . .	1	1	=	=
Aggregates: partners and stockholders, .	4,149	4,445	+296	+7.13

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$30,811,473	\$32,917,618	+\$2,106,145	+6.84

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$11,465,690	\$10,124,464	-\$1,341,226	-11.70
Castings:				
Brass, . . . . .	58,942	51,404	-7,538	-12.79
Composition, . . . . .	24,381	20,440	-3,941	-16.16
Iron, . . . . .	335,378	295,844	-39,534	-11.79
Castings (not specified), . . . . .	67,617	66,612	-1,005	-1.49
Copper (not specified), . . . . .	80,691	79,531	-1,160	-1.44
Iron:				
Bar, . . . . .	69,120	76,818	+7,698	+11.14
Cast, . . . . .	482,497	407,648	-74,849	-15.51
Pig, . . . . .	462,665	407,446	-55,219	-11.93
Wrought, . . . . .	199,891	165,042	-34,849	-17.43
Iron (not specified), . . . . .	426,050	413,207	-12,843	-3.01

## MACHINES AND MACHINERY — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE VALUES — Concluded.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Lumber, dressed . . . . .	\$239,909	\$225,960	—\$13,949	—5.81
Steel, plate . . . . .	55,166	50,598	—4,568	—8.28
Steel (not specified), . . . . .	262,685	276,528	+13,843	+5.27
Not classified in detail, . . . . .	8,700,698	7,587,386	—1,113,312	—12.80

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percent- ages
Castings :					
Brass, . . . . .	100 pounds	3,079	2,576	—503	—16.34
Composition, . . . . .	100 pounds	1,179	1,043	—136	—11.54
Iron, . . . . .	tons	6,510¾	5,902	—608¾	—9.35
Castings (not specified), . . . . .	100 pounds	24,862	25,074	+212	+0.85
Copper (not specified), . . . . .	100 pounds	6,864	7,275	+411	+5.99
Iron :					
Bar, . . . . .	tons	1,511¾	1,947	+435¾	+28.79
Cast, . . . . .	tons	8,318¾	7,290¾	—1,027½	—12.35
Pig, . . . . .	tons	26,471½	25,959½	—512	—1.93
Wrought, . . . . .	tons	2,852½	2,441	—411½	—14.43
Iron (not specified), . . . . .	tons	12,358¾	13,204	+845¾	+6.84
Lumber, dressed . . . . .	M feet	8,308	8,160	—148	—1.78
Steel, plate . . . . .	100 pounds	26,989	23,805	—3,184	—11.80
Steel (not specified), . . . . .	100 pounds	73,276	84,111	+10,835	+14.79

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent-ages
Castings :					
Brass, . . . . .	100 pounds	\$19.14	\$19.95	+\$0.81	+4.23
Composition, . . . . .	100 pounds	20.68	19.60	—1.08	—5.22
Iron, . . . . .	tons	51.51	50.13	—1.38	—2.68
Castings (not specified), . . . . .	100 pounds	2.72	2.66	—0.06	—2.21
Copper (not specified), . . . . .	100 pounds	11.76	10.93	—0.83	—7.06
Iron :					
Bar, . . . . .	tons	45.72	39.45	—6.27	—13.71
Cast, . . . . .	tons	58.00	55.91	—2.09	—3.60
Pig, . . . . .	tons	17.43	15.70	—1.73	—10.13
Wrought, . . . . .	tons	70.08	67.61	—2.47	—3.52
Iron (not specified), . . . . .	tons	34.47	31.29	—3.18	—9.23
Lumber, dressed . . . . .	M feet	28.88	27.69	—1.19	—4.12
Steel, plate . . . . .	100 pounds	2.04	2.13	+0.09	+4.41
Steel (not specified), . . . . .	100 pounds	3.53	3.29	—0.29	—8.10

## MACHINES AND MACHINERY — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$29,960,988	\$27,975,359	—\$1,985,629	—6.63
Bobbins, . . . . .	88,600	92,000	+3,400	+3.84
Boilers, steam . . . . .	269,994	288,479	+18,485	+6.85
Engines (not specified), . . . . .	134,495	139,804	+5,309	+3.95
Harnesses, loom . . . . .	100,776	110,160	+9,384	+9.31
Lathes (not specified), . . . . .	261,157	192,695	—68,462	—26.21
Machinery :				
Boot and shoe, . . . . .	160,866	116,601	—44,265	—27.52
Leather, . . . . .	138,351	126,118	—12,233	—8.84
Metal-working, . . . . .	336,621	272,431	—64,190	—19.07
Paper, . . . . .	358,314	225,443	—132,871	—37.08
Printing, . . . . .	197,617	163,722	—33,895	—17.15
Textile, . . . . .	906,007	938,961	+32,954	+3.64
Woodworking, . . . . .	221,403	199,770	—21,633	—9.77
Pulleys, . . . . .	21,827	24,222	+2,395	+10.97
Pumps, steam . . . . .	34,590	39,601	+5,011	+14.49
Spindles, . . . . .	59,450	49,200	—10,250	—17.24
Tanks, iron . . . . .	50,139	45,721	—4,418	—8.81
Valves, steam . . . . .	99,653	99,963	+310	+0.31
Valves (not specified), . . . . .	117,844	97,101	—20,743	—17.60
Not classified in detail, . . . . .	26,403,284	24,753,367	—1,649,917	—6.25

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
Bobbins, . . . . .	thousand	8,845	9,350	+505	+5.71
Boilers, steam . . . . .		656	674	+18	+2.74
Engines (not specified), . . . . .		132	143	+11	+8.33
Harnesses, loom . . . . .	100 beers	41,826	49,122	+4,296	+9.58
Lathes (not specified), . . . . .		1,038	805	—233	—22.45
Pulleys, . . . . .		4,119	4,220	+101	+2.45
Pumps, steam . . . . .		238	252	+36	+12.50
Spindles, . . . . .	hundred	5,435	4,440	—995	—18.31
Tanks, iron . . . . .		433	336	—97	—22.40
Valves, steam . . . . .		3,969	3,417	—552	—13.91
Valves (not specified), . . . . .		120,091	119,949	—142	—0.12

## MACHINES AND MACHINERY — 1892, 1893 — Continued.

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Bobbins, . . . . .	thousand	\$10.02	\$9.84	—\$0.18	—1.80
Boilers, steam . . . . .	. . . . .	411.53	423.01	+16.43	+3.99
Engines (not specified), . . . . .	. . . . .	1,018.90	977.65	—41.25	—4.05
Harnesses, loom . . . . .	100 beers	2.25	2.24	—0.01	—0.44
Lathes (not specified), . . . . .	. . . . .	251.60	239.37	—12.23	—4.86
Pulleys, . . . . .	. . . . .	5.30	5.74	+0.44	+8.30
Pumps, steam . . . . .	. . . . .	120.10	157.15	+37.05	+30.85
Spindles, . . . . .	hundred	10.94	11.03	+0.14	+1.28
Tanks, iron . . . . .	. . . . .	115.79	136.07	+20.28	+17.51
Valves, steam . . . . .	. . . . .	25.11	29.25	+4.14	+16.49
Valves (not specified), . . . . .	. . . . .	0.98	0.81	+0.17	+17.35

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percentages
Average number, . . . . .	17,979	17,495	—484	—2.69
Smallest number, . . . . .	15,597	12,621	—2,976	—19.03
Greatest number, . . . . .	20,495	21,216	+721	+3.52
Excess of greatest over smallest number, . . . . .	4,898	8,595	+3,697	+75.48

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	17,155	254	17,409	18,956	266	19,222
February, . . . . .	17,124	257	17,381	19,066	271	19,337
March, . . . . .	17,023	253	17,276	19,352	263	19,615
April, . . . . .	17,349	264	17,613	18,855	282	19,137
May, . . . . .	17,246	254	17,500	18,850	279	19,129
June, . . . . .	17,324	260	17,584	18,307	287	18,594
July, . . . . .	17,606	259	17,865	17,798	238	18,036

## MACHINES AND MACHINERY—1892, 1893—Concluded.

## PERSONS EMPLOYED: BY MONTHS—Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	17,977	245	18,222	16,353	220	16,573
September, . . . . .	18,076	260	18,336	15,224	218	15,442
October, . . . . .	18,335	255	18,590	14,882	238	15,120
November, . . . . .	18,606	261	18,867	14,490	229	14,719
December, . . . . .	18,692	261	18,953	14,305	254	14,559
During the entire year,* . .	1,080	51	1,131	506	3	509

\* 73 establishments in 1892; 35 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$10,107,731	\$9,470,094	—\$637,637	—6.31
Average yearly earnings, . . . . .	562.20	541.30	—20.90	—3.72

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	1,278	69	1,347	1,196	61	1,257
\$5 but under \$6, . . . . .	696	41	737	892	40	932
\$6 but under \$7, . . . . .	1,116	84	1,200	1,093	100	1,193
\$7 but under \$8, . . . . .	1,481	53	1,534	1,548	37	1,585
\$8 but under \$9, . . . . .	1,446	20	1,466	1,617	16	1,633
\$9 but under \$10, . . . . .	2,227	9	2,236	2,292	11	2,303
\$10 but under \$12, . . . . .	2,976	9	2,985	3,039	13	3,052
\$12 but under \$15, . . . . .	4,097	8	4,105	4,226	12	4,238
\$15 but under \$20, . . . . .	3,564	1	3,565	3,750	2	3,752
\$20 and over, . . . . .	875	—	875	836	—	836
TOTALS, . . . . .	19,756	294	20,050	20,489	292	20,781

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	68.47	59.20	—9.27	—13.54
Average number of days in operation, . .	303.51	286.60	—16.91	—5.57



## METALS AND METALLIC GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	341	341	=	=
Number of private firms, . . . . .	254	250	-4	-1.57
Number of partners, . . . . .	388	377	-11	-2.84
Males, . . . . .	374	361	-13	-3.48
Females, . . . . .	11	6	-5	-45.45
Special, . . . . .	1	4	+3	+300.00
Estates, . . . . .	2	6	+4	+200.00
Number of corporations, . . . . .	87	91	+4	+4.60
Number of stockholders, . . . . .	2,015	1,974	-41	-2.03
Males, . . . . .	1,408	1,303	-105	-7.46
Females, . . . . .	545	549	+4	+0.73
Banks, trustees, etc., . . . . .	62	120	+58	+48.33
Syndicates, . . . . .	-	2	+2	-
Aggregates: partners and stockholders, .	2,403	2,351	-52	-2.16

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$20,780,435	\$20,390,350	-\$390,085	-1.88

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$12,723,710	\$10,863,682	-\$1,860,028	-14.62
Antimony, . . . . .	15,287	7,884	-7,403	-48.43
Brass, sheet . . . . .	76,769	53,550	-23,189	-30.21
Brass (not specified), . . . . .	36,612	36,311	-301	-0.82
Composition, . . . . .	32,690	33,893	+1,203	+3.68
Copper, ingot . . . . .	259,305	329,963	+70,658	+27.25
Copper, sheet . . . . .	25,163	13,444	-11,719	-46.57
Copper (not specified), . . . . .	432,575	285,160	-147,415	-34.08
Gold, . . . . .	54,576	49,987	-5,589	-10.24
Iron:				
Bar, . . . . .	24,426	26,660	+2,234	+9.15
Pig, . . . . .	703,012	513,512	-189,500	-26.96
Scrap, . . . . .	384,479	272,432	-112,047	-29.14
Sheet, . . . . .	32,490	46,307	+13,817	+42.53
Wrought, . . . . .	120,764	142,699	+21,935	+18.16
Iron (not specified), . . . . .	706,297	523,165	-183,132	-25.93



## METALS AND METALLIC GOODS — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE VALUES — Concluded.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Ore, iron . . . . .	\$11,163	\$9,964	—\$1,199	—10.74
Rails, iron (old), . . . . .	71,968	25,100	—46,868	—65.12
Rivet-rods, iron . . . . .	107,790	109,189	+1,399	+1.30
Silver, . . . . .	342,829	332,807	—10,022	—2.92
Spelter, . . . . .	95,260	92,033	—3,227	—3.39
Steel (not specified), . . . . .	306,235	249,835	—56,400	—18.42
Tin, pig . . . . .	43,401	26,818	—16,583	—38.21
Tin-plate, . . . . .	267,109	224,625	—42,484	—15.91
Wire, copper . . . . .	243,759	157,088	—86,671	—35.56
Wire, iron . . . . .	246,220	249,431	+3,211	+1.30
Zinc, . . . . .	54,126	39,789	—14,337	—26.49
Not classified in detail, . . . . .	8,029,405	7,013,006	—1,016,399	—12.66

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
Antimony, . . . . .	100 pounds	1,111	614	—497	—44.73
Brass, sheet . . . . .	100 pounds	5,064	3,579	—1,485	—29.32
Brass (not specified), . . . . .	100 pounds	3,144	3,733	+589	+18.73
Composition, . . . . .	100 pounds	2,954	2,625	—329	—11.14
Copper, ingot . . . . .	100 pounds	21,524	26,581	+5,057	+23.49
Copper, sheet . . . . .	100 pounds	1,603	922	—681	—42.48
Copper (not specified), . . . . .	100 pounds	36,579	26,344	—10,235	—27.98
Gold, . . . . .	pwt.	52,807	48,148	—4,659	—8.82
Iron :					
Bar, . . . . .	tons	545½	673½	+128½	+23.52
Pig, . . . . .	tons	40,468½	33,224	—7,244½	—17.90
Scrap, . . . . .	tons	26,025	24,238¾	—1,786¾	—6.86
Sheet, . . . . .	tons	502	835½	+333½	+66.43
Wrought, . . . . .	tons	3,094	4,168	+1,074	+34.71
Iron (not specified), . . . . .	tons	43,362	32,918	—10,444	—24.09
Ore, iron . . . . .	tons	2,028	1,911	—117	—5.77
Rails, iron (old), . . . . .	tons	3,103	1,550	—1,553	—50.05
Rivet-rods, iron . . . . .	tons	1,866½	1,976¼	+109¾	+5.88
Silver, . . . . .	ounces	350,723	394,883	+44,160	+12.59
Spelter, . . . . .	100 pounds	19,677	21,477	+1,800	+9.15
Steel (not specified), . . . . .	tons	3,882¾	3,362¾	—520	—13.35
Tin, pig . . . . .	100 pounds	2,050	1,291	—759	—37.02
Tin-plate, . . . . .	boxes	42,582	37,680	—4,902	—11.51
Wire, copper . . . . .	100 pounds	16,258	10,416	—5,842	—35.93
Wire, iron . . . . .	100 pounds	57,893	64,473	+6,580	+11.37
Zinc, . . . . .	100 pounds	9,127	8,244	—883	—9.67

## METALS AND METALLIC GOODS—1892, 1893—Continued.

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Antimony, . . . . .	100 pounds	\$13.76	\$12.84	—\$0.92	—6.69
Brass, sheet . . . . .	100 pounds	15.16	14.97	—0.19	—1.25
Brass (not specified), . . . .	100 pounds	11.65	9.73	—1.92	—16.48
Composition, . . . . .	100 pounds	11.07	12.91	+1.84	+16.62
Copper, ingot . . . . .	100 pounds	12.05	12.41	+0.36	+2.99
Copper, sheet . . . . .	100 pounds	15.70	14.58	—1.12	—7.13
Copper (not specified), . . . .	100 pounds	11.83	10.82	—1.01	—8.54
Gold, . . . . .	pwt.	1.03	1.02	—0.01	—0.97
Iron:					
Bar, . . . . .	tons	44.80	39.58	—5.22	—11.65
Pig, . . . . .	tons	17.37	15.46	—1.91	—11.00
Scrap, . . . . .	tons	14.77	11.24	—3.53	—23.90
Sheet, . . . . .	tons	64.72	55.42	—9.30	—14.37
Wrought, . . . . .	tons	39.03	34.24	—4.79	—12.27
Iron (not specified), . . . . .	tons	16.29	15.89	—0.40	—2.46
Ore, iron . . . . .	tons	5.50	5.21	—0.29	—5.27
Rails, iron (old), . . . . .	tons	23.19	16.19	—7.00	—30.19
Rivet-rods, iron . . . . .	tons	57.75	55.25	—2.50	—4.33
Silver, . . . . .	ounces	0.98	0.84	—0.14	—14.29
Spelter, . . . . .	100 pounds	4.84	4.29	—0.55	—11.36
Steel (not specified), . . . . .	tons	78.87	74.29	—4.58	—5.81
Tin, pig . . . . .	100 pounds	21.17	20.77	—0.40	—1.89
Tin-plate, . . . . .	boxes	6.27	5.96	—0.31	—4.94
Wire, copper . . . . .	100 pounds	14.99	15.08	+0.09	+0.60
Wire, iron . . . . .	100 pounds	4.25	3.87	—0.38	—8.94
Zinc, . . . . .	100 pounds	5.93	4.83	—1.10	—18.55

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percentages
Total value of goods made and work done, .	\$26,259,252	\$22,878,245	—\$3,381,007	—12.88
Bridge-work, iron . . . . .	168,000	210,000	+42,000	+25.00
Castings:				
Brass, . . . . .	117,481	84,568	—32,913	—28.02
Composition, . . . . .	42,586	43,687	+1,101	+2.59
Iron, . . . . .	1,365,439	1,231,357	—134,082	—9.82
Castings (not specified), . . . .	623,250	538,089	—85,161	—13.66
Cutlery, table . . . . .	772,484	649,384	—23,100	—2.99
Forgings, iron . . . . .	95,757	91,467	—4,290	—4.48
Gold leaf, . . . . .	108,235	103,129	—5,106	—4.72
Iron, bar . . . . .	306,364	219,464	—86,900	—28.36
Iron-work, architectural . . . . .	350,076	359,348	+9,272	+2.65
Nails, cut . . . . .	294,012	231,748	—62,264	—21.18
Needles, machine . . . . .	183,659	154,357	—29,302	—15.95
Sash weights, . . . . .	61,540	51,150	—10,390	—16.88

## METALS AND METALLIC GOODS — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES — Concluded.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Tacks, shoe . . . . .	\$19,241	\$14,106	—\$5,135	—26.69
Tacks (not specified), . . . . .	274,939	218,424	—56,515	—20.56
Tack-plate, . . . . .	227,809	144,830	—82,979	—36.42
Type, . . . . .	278,800	172,719	—106,081	—38.05
Not classified in detail, . . . . .	20,969,580	18,360,418	—2,609,162	—12.44

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
Bridge work, iron . . . . .	tons	2,100	3,000	+900	+42.86
Castings:					
Brass, . . . . .	100 pounds	5,464	3,980	—1,484	—27.16
Composition, . . . . .	100 pounds	2,600	2,563	—32	—1.23
Iron, . . . . .	tons	25,365 $\frac{3}{4}$	23,662	—1,703 $\frac{3}{4}$	—6.72
Castings (not specified), . . . . .	tons	10,115 $\frac{3}{4}$	9,751 $\frac{1}{2}$	—364 $\frac{1}{2}$	—3.60
Cutlery, table . . . . .	dozen	681,434	592,481	—88,953	—13.05
Forgings, iron . . . . .	100 pounds	26,362	26,963	+601	+2.28
Gold leaf, . . . . .	packs	13,750	13,421	—329	—2.39
Iron, bar . . . . .	tons	8,136	6,938	—1,198	—14.72
Iron-work, architectural . . . . .	100 pounds	131,616	129,415	—2,201	—1.67
Nails, cut . . . . .	kegs	151,421	127,239	—24,182	—15.97
Needles, machine . . . . .	thousand	23,186	19,719	—3,467	—14.95
Sash weights, . . . . .	tons	2,952	2,510	—442	—14.97
Tacks, shoe . . . . .	100 pounds	1,877	1,406	—471	—25.09
Tacks (not specified), . . . . .	100 pounds	43,140	38,029	—5,111	—11.85
Tack-plate, . . . . .	tons	6,672	4,496	—2,176	—32.61
Type, . . . . .	100 pounds	6,562	4,185	—2,377	—36.22

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measure- ment	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Bridge-work, iron . . . . .	tons	\$80.00	\$70.09	—\$10.00	—12.50
Castings:					
Brass, . . . . .	100 pounds	21.50	21.25	—0.25	—1.16
Composition, . . . . .	100 pounds	16.38	17.01	+0.63	+3.85
Iron, . . . . .	tons	53.83	52.04	—1.79	—3.33
Castings (not specified), . . . . .	tons	61.61	55.18	—6.43	—10.44
Cutlery, table . . . . .	dozen	1.13	1.10	—0.03	—2.65
Forgings, iron . . . . .	100 pounds	3.63	3.39	—0.24	—6.61
Gold leaf, . . . . .	packs	7.87	7.68	—0.19	—2.41
Iron, bar . . . . .	tons	37.66	31.63	—6.03	—16.01
Iron-work, architectural . . . . .	100 pounds	2.66	2.78	+0.12	+4.51

## METALS AND METALLIC GOODS—1892, 1893—Continued.

## GOODS MADE. AVERAGE VALUES—Concluded.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Nails, cut . . . . .	kegs	\$1.94	\$1.82	—\$0.12	—6.19
Needles, machine . . . .	thousand	7.92	7.83	—0.09	—1.14
Sash weights, . . . . .	tons	20.85	20.38	—0.47	—2.25
Tacks, shoe . . . . .	100 pounds	10.25	10.03	—0.22	—2.15
Tacks (not specified), . .	100 pounds	6.37	5.74	—0.63	—9.89
Tack-plate, . . . . .	tons	34.14	32.21	—1.93	—5.65
Type, . . . . .	100 pounds	42.49	41.27	—1.22	—2.87

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percentages
Average number, . . . . .	14,356	13,313	—1,043	—7.27
Smallest number, . . . . .	12,365	10,336	—2,029	—16.41
Greatest number, . . . . .	16,058	15,611	—447	—2.78
Excess of greatest over smallest number, .	3,693	5,275	+1,582	+42.84

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	12,470	1,423	13,893	12,707	1,376	14,083
February, . . . . .	12,495	1,461	13,956	12,708	1,390	14,098
March, . . . . .	12,513	1,516	14,029	12,800	1,467	14,267
April, . . . . .	12,591	1,532	14,123	12,910	1,500	14,410
May, . . . . .	12,762	1,541	14,303	12,937	1,461	14,398
June, . . . . .	12,788	1,491	14,279	12,787	1,363	14,150
July, . . . . .	12,550	1,458	14,008	11,758	1,137	12,895
August, . . . . .	12,739	1,493	14,232	11,331	1,105	12,436
September, . . . . .	13,263	1,519	14,782	10,909	1,065	11,974
October, . . . . .	13,519	1,485	15,004	11,263	1,149	12,412
November, . . . . .	13,394	1,506	14,900	11,130	1,155	12,285
December, . . . . .	13,468	1,502	14,970	10,923	1,118	12,041
During the entire year,* . .	1,751	325	2,076	1,420	230	1,650

\* 83 establishments in 1892; 63 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percentages
Total amount paid in wages, . . . . .	\$7,424,150	\$6,726,827	—\$697,323	—9.39
Average yearly earnings, . . . . .	517.15	505.23	—11.87	—2.30

## METALS AND METALLIC GOODS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	691	408	1,099	750	325	1,075
\$5 but under \$6, . . . .	533	326	859	449	287	736
\$6 but under \$7, . . . .	835	407	1,242	785	366	1,151
\$7 but under \$8, . . . .	1,104	246	1,350	1,096	250	1,346
\$8 but under \$9, . . . .	995	132	1,127	1,029	132	1,161
\$9 but under \$10, . . . .	2,018	60	2,078	1,907	70	1,977
\$10 but under \$12, . . . .	2,268	48	2,316	2,297	52	2,349
\$12 but under \$15, . . . .	2,872	12	2,884	2,603	17	2,620
\$15 but under \$20, . . . .	2,158	3	2,161	2,129	4	2,133
\$20 and over, . . . . .	698	-	698	803	-	803
TOTALS, . . . . .	14,172	1,642	15,814	13,848	1,503	15,351

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	69.32	59.37	-9.95	-14.35
Average number of days in operation, . . .	292.02	266.52	-25.50	-8.73

## MIXED TEXTILES. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	13	13	=	=
Number of private firms, . . . . .	7	4	-3	-42.86
Number of partners, . . . . .	8	4	-4	-50.00
Males, . . . . .	8	4	-4	-50.00
Number of corporations, . . . . .	6	9	+3	+50.00
Number of stockholders, . . . . .	48	62	+14	+29.17
Males, . . . . .	43	52	+9	+20.93
Females, . . . . .	5	9	+4	+80.00
Syndicates, . . . . .	-	1	+1	-
Aggregates: partners and stockholders, . .	56	66	+10	+17.86



## MIXED TEXTILES — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$1,047,542	\$962,388	—\$85,154	—8.13

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$1,186,107	\$1,102,216	—\$83,891	—7.07

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,838,645	\$1,638,269	—\$200,376	—10.90

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	772	760	—12	—1.55
Smallest number, . . . . .	708	551	—157	—22.18
Greatest number, . . . . .	820	868	+48	+5.85
Excess of greatest over smallest number, .	112	317	+205	+183.04

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	546	210	756	573	226	799
February, . . . . .	548	215	763	573	221	794
March, . . . . .	554	215	769	594	229	823
April, . . . . .	553	218	771	616	237	853
May, . . . . .	551	227	778	606	243	849
June, . . . . .	549	228	777	596	236	832
July, . . . . .	546	218	764	584	224	808



**MIXED TEXTILES — 1892, 1893 — Concluded.**  
**PERSONS EMPLOYED: BY MONTHS — Concluded.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	545	239	784	513	214	727
September, . . . . .	544	238	782	470	162	632
October, . . . . .	506	228	734	464	159	623
November, . . . . .	516	227	743	504	181	685
December, . . . . .	519	230	749	505	186	691
During the entire year,* . .	129	10	139	119	12	131

\* 3 establishments in 1892; 2 establishments in 1893.

**WAGES AND EARNINGS.**

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$283,421	\$282,293	—\$1,128	—0.40
Average yearly earnings, . . . . .	367.13	371.44	+4.31	+1.17

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	59	133	192	67	113	180
\$5 but under \$6, . . . . .	27	50	77	25	56	81
\$6 but under \$7, . . . . .	70	39	109	78	46	124
\$7 but under \$8, . . . . .	167	16	183	167	19	186
\$8 but under \$9, . . . . .	45	5	50	56	9	65
\$9 but under \$10, . . . . .	93	3	96	74	5	79
\$10 but under \$12, . . . . .	57	4	61	51	8	59
\$12 but under \$15, . . . . .	35	—	35	34	—	34
\$15 but under \$20, . . . . .	26	—	26	31	—	31
\$20 and over, . . . . .	11	—	11	12	—	12
TOTALS, . . . . .	590	250	840	595	256	851

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and days	Percent- ages
Average proportion of business done, . .	81.46	74.00	—7.46	—9.16
Average number of days in operation, . .	298.85	285.56	—13.29	—4.45

**MODELS, LASTS, AND PATTERNS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (-), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	46	46	=	=
Number of private firms, . . . . .	46	45	-1	-2.17
Number of partners, . . . . .	72	68	-4	-5.56
Males, . . . . .	70	67	-3	-4.29
Females, . . . . .	1	1	=	=
Special, . . . . .	1	-	-1	-100.00
Number of corporations, . . . . .	-	1	+1	-
Number of stockholders, . . . . .	-	20	+20	-
Males, . . . . .	-	20	+20	-
Aggregates: partners and stockholders, .	72	88	+16	+22.22

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$466,736	\$524,688	+\$57,952	+12.42

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$267,098	\$239,909	-\$27,189	-10.18

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$886,209	\$795,684	-\$90,525	-10.21

## MODELS, LASTS, AND PATTERNS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	420	417	-3	-0.71
Smallest number, . . . . .	366	341	-25	-6.83
Greatest number, . . . . .	467	488	+21	+4.50
Excess of greatest over smallest number, .	101	147	+46	+45.54

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	390	-	390	434	1	435
February, . . . . .	399	-	399	454	1	455
March, . . . . .	406	-	406	455	1	456
April, . . . . .	408	-	408	458	1	459
May, . . . . .	410	-	410	445	1	446
June, . . . . .	409	-	409	418	-	418
July, . . . . .	402	-	402	402	-	402
August, . . . . .	411	-	411	373	-	373
September, . . . . .	433	-	433	366	-	366
October, . . . . .	445	-	445	370	-	370
November, . . . . .	457	-	457	374	-	374
December, . . . . .	450	-	450	386	-	386
During the entire year,* . .	134	-	134	55	-	55

\* 15 establishments in 1892; 5 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$297,485	\$283,519	-\$13,966	-4.69
Average yearly earnings, . . . . .	708.30	679.90	-28.40	-4.01

## MODELS, LASTS, AND PATTERNS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	6	-	6	11	-	11
\$5 but under \$6, . . . . .	11	-	11	14	-	14
\$6 but under \$7, . . . . .	13	-	13	24	-	24
\$7 but under \$8, . . . . .	15	-	15	14	-	14
\$8 but under \$9, . . . . .	10	-	10	12	-	12
\$9 but under \$10, . . . . .	33	-	33	22	1	23
\$10 but under \$12, . . . . .	32	-	32	40	-	40
\$12 but under \$15, . . . . .	80	-	80	99	-	99
\$15 but under \$20, . . . . .	199	-	199	170	-	170
\$20 and over, . . . . .	67	-	67	75	-	75
TOTALS, . . . . .	466	-	466	481	1	482

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	65.20	59.33	-5.87	-9.00
Average number of days in operation, . . .	289.97	286.77	-3.20	-1.10

MUSICAL INSTRUMENTS AND MATERIALS.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	54	54	=	=
Number of private firms, . . . . .	38	36	-2	-5.26
Number of partners, . . . . .	61	56	-5	-8.20
Males, . . . . .	61	56	-5	-8.20
Number of corporations, . . . . .	16	18	+2	+12.50
Number of stockholders, . . . . .	241	269	+28	+11.62
Males, . . . . .	178	203	+25	+14.04
Females, . . . . .	62	65	+3	+4.84
Banks, trustees, etc., . . . . .	1	1	=	=
Aggregates : partners and stockholders, .	302	325	+23	+7.62

MUSICAL INSTRUMENTS AND MATERIALS—1892, 1893  
—Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$5,036,944	\$5,298,941	+\$261,997	+5.20

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$2,655,058	\$1,925,262	—\$729,796	—27.49

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$6,229,274	\$3,916,694	—\$2,312,580	—37.12

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	3,352	2,726	—626	—18.68
Smallest number, . . . . .	3,078	1,755	—1,323	—42.98
Greatest number, . . . . .	3,539	3,307	—232	—6.56
Excess of greatest over smallest number, .	461	1,552	+1,091	+236.66

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	3,155	112	3,267	3,108	101	3,209
February, . . . . .	3,140	108	3,248	3,073	98	3,171
March, . . . . .	3,132	110	3,242	3,079	102	3,181
April, . . . . .	3,222	111	3,333	3,067	107	3,174
May, . . . . .	3,209	110	3,319	2,990	107	3,097
June, . . . . .	3,174	107	3,281	2,922	100	3,022
July, . . . . .	3,165	109	3,274	2,532	79	2,611

**MUSICAL INSTRUMENTS AND MATERIALS — 1892, 1893**  
— Concluded.

**PERSONS EMPLOYED: BY MONTHS — Concluded.**

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	3,186	104	3,290	1,994	65	2,059
September, . . . . .	3,263	115	3,378	1,934	67	2,001
October, . . . . .	3,306	127	3,433	2,216	76	2,292
November, . . . . .	3,320	131	3,451	2,345	79	2,424
December, . . . . .	3,337	135	3,472	2,347	88	2,435
During the entire year,* . . . . .	1,040	8	1,048	624	8	632

\* 16 establishments in 1892; 13 establishments in 1893.

**WAGES AND EARNINGS.**

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$2,210,920	\$1,712,136	—\$498,784	—22.56
Average yearly earnings, . . . . .	659.58	628.08	—31.50	—4.78

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	105	39	144	91	37	128
\$5 but under \$6, . . . . .	82	32	114	60	30	90
\$6 but under \$7, . . . . .	117	32	149	111	25	136
\$7 but under \$8, . . . . .	97	13	110	100	9	109
\$8 but under \$9, . . . . .	101	3	104	132	3	135
\$9 but under \$10, . . . . .	193	3	196	214	4	218
\$10 but under \$12, . . . . .	442	6	448	368	3	371
\$12 but under \$15, . . . . .	793	2	795	693	5	698
\$15 but under \$20, . . . . .	1,054	—	1,054	1,000	—	1,000
\$20 and over, . . . . .	375	—	375	326	—	326
TOTALS, . . . . .	3,359	130	3,489	3,095	116	3,211

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	74.26	60.33	—13.93	—18.76
Average number of days in operation, . . . . .	298.19	264.84	—33.35	—11.18



## OILS AND ILLUMINATING FLUIDS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	10	10	=	=
Number of private firms, . . . . .	8	8	=	=
Number of partners, . . . . .	12	13	+1	+8.33
Males, . . . . .	11	13	+2	+18.18
Females, . . . . .	1	-	-1	-100.00
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	57	61	+4	+7.02
Males, . . . . .	35	36	+1	+2.86
Females, . . . . .	21	21	=	=
Banks, trustees, etc., . . . . .	1	4	+3	+300.00
Aggregates: partners and stockholders, .	69	74	+5	+7.25

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$605,000	\$711,019	+\$106,019	+17.52

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$908,161	\$811,599	-\$96,562	-10.63

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,057,102	\$971,265	-\$85,837	-8.12

## OILS AND ILLUMINATING FLUIDS—1892, 1893—Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	150	140	—10	—6.67
Smallest number, . . . . .	122	104	—18	—14.75
Greatest number, . . . . .	202	227	+25	+12.38
Excess of greatest over smallest number, .	80	123	+43	+53.75

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	171	26	197	187	23	210
February, . . . . .	167	26	193	185	23	208
March, . . . . .	162	26	188	131	11	142
April, . . . . .	125	24	149	124	10	134
May, . . . . .	110	23	133	119	7	126
June, . . . . .	110	24	134	112	9	121
July, . . . . .	106	22	128	111	10	121
August, . . . . .	103	22	125	109	12	121
September, . . . . .	107	22	129	102	12	114
October, . . . . .	116	22	138	108	13	121
November, . . . . .	117	21	138	115	11	126
December, . . . . .	126	21	147	120	11	131
During the entire year,* . . .	17	3	20	20	1	21

\* 2 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$68,365	\$66,746	—\$1,619	—2.37
Average yearly earnings, . . . . .	455.77	476.76	+20.99	+4.61

**OILS AND ILLUMINATING FLUIDS — 1892, 1893 — Concluded.**  
**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	6	24	30	6	18	24
\$5 but under \$6, . . . .	1	-	1	1	2	3
\$6 but under \$7, . . . .	2	-	2	6	6	12
\$7 but under \$8, . . . .	1	-	1	1	-	1
\$8 but under \$9, . . . .	-	-	-	1	-	1
\$9 but under \$10, . . . .	24	-	24	75	-	75
\$10 but under \$12, . . . .	65	-	65	55	-	55
\$12 but under \$15, . . . .	34	4	38	35	-	35
\$15 but under \$20, . . . .	9	-	9	14	-	14
\$20 and over, . . . . .	-	-	-	-	-	-
<b>TOTALS, . . . . .</b>	<b>142</b>	<b>28</b>	<b>170</b>	<b>194</b>	<b>26</b>	<b>220</b>

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	64.20	54.50	-9.70	-15.11
Average number of days in operation, . . .	306.17	305.73	-0.44	-0.14

**PAINTS, COLORS, AND CRUDE CHEMICALS.**  
**1892, 1893.**

**ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	20	20	=	=
Number of private firms, . . . . .	16	14	-2	-12.50
Number of partners, . . . . .	35	27	-8	-22.86
Males, . . . . .	34	27	-7	-20.59
Special, . . . . .	1	-	-1	-100.00
Number of corporations, . . . . .	4	6	+2	+50.00
Number of stockholders, . . . . .	54	72	+18	+33.33
Males, . . . . .	46	60	+14	+30.43
Females, . . . . .	8	12	+4	+50.00
Aggregates: partners and stockholders, . .	89	99	+10	+11.24

## PAINTS, COLORS, AND CRUDE CHEMICALS — 1892, 1893

— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$1,181,405	\$1,003,364	—\$178,041	—15.07

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$778,722	\$693,701	—\$85,021	—10.92

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,284,909	\$1,247,716	—\$37,193	—2.89

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	226	221	—5	—2.21
Smallest number, . . . . .	191	180	—11	—5.76
Greatest number, . . . . .	249	264	+15	+6.02
Excess of greatest over smallest number, .	58	84	+26	+44.83

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	198	5	203	213	6	219
February, . . . . .	207	6	213	222	7	229
March, . . . . .	219	7	226	232	8	240
April, . . . . .	229	8	237	249	9	258
May, . . . . .	228	8	236	241	9	250
June, . . . . .	227	8	235	240	10	250
July, . . . . .	221	8	229	215	9	224

## PAINTS, COLORS, AND CRUDE CHEMICALS — 1892, 1893

— Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	212	6	218	194	5	199
September, . . . . .	233	8	241	199	4	203
October, . . . . .	225	8	233	196	7	203
November, . . . . .	214	8	222	189	7	196
December, . . . . .	211	7	218	198	7	205
During the entire year,* . .	45	—	45	46	—	46

\* 8 establishments in 1892; 7 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$122,653	\$117,429	—\$5,224	—4.26
Average yearly earnings, . . . . .	542.71	531.35	—11.36	—2.09

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	10	4	14	4	2	6
\$5 but under \$6, . . . . .	8	1	9	6	5	11
\$6 but under \$7, . . . . .	7	1	8	6	1	7
\$7 but under \$8, . . . . .	7	1	8	11	—	11
\$8 but under \$9, . . . . .	5	1	6	10	2	12
\$9 but under \$10, . . . . .	65	—	65	69	—	69
\$10 but under \$12, . . . . .	48	—	48	64	—	64
\$12 but under \$15, . . . . .	56	—	56	53	—	53
\$15 but under \$20, . . . . .	21	—	21	27	—	27
\$20 and over, . . . . .	13	—	13	10	—	10
TOTALS, . . . . .	240	8	248	260	10	270

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	66.25	61.20	—5.05	—7.62
Average number of days in operation, . . .	295.77	281.61	—14.16	—4.79

## PAPER AND PAPER GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	98	98	=	=
Number of private firms, . . . . .	36	32	-4	-11.11
Number of partners, . . . . .	81	71	-10	-12.35
Males, . . . . .	81	70	-11	-13.58
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	62	66	+4	+6.45
Number of stockholders, . . . . .	1,227	1,303	+76	+6.19
Males, . . . . .	803	844	+41	+5.11
Females, . . . . .	369	393	+24	+6.50
Banks, trustees, etc., . . . . .	55	66	+11	+20.00
Aggregates: partners and stockholders, .	1,308	1,374	+66	+5.05

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$21,944,434	\$23,137,410	+\$1,192,976	+5.44

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$15,170,117	\$14,376,340	-\$793,777	-5.23
Bagging, . . . . .	70,456	79,567	+9,111	+12.93
Clay, . . . . .	30,582	31,482	+900	+2.94
Paper, envelope . . . . .	888,351	787,182	-101,169	-11.39
Paper, old . . . . .	374,109	342,292	-31,817	-8.50
Paper shavings, . . . . .	68,566	30,270	-38,296	-55.85
Pulp, wood . . . . .	2,011,541	1,968,149	-43,392	-2.16
Rags, cotton . . . . .	822,171	705,736	-116,435	-14.16
Rags, linen . . . . .	56,653	57,060	+407	+0.72
Rags (not specified), . . . . .	2,509,463	2,192,453	-317,010	-12.63
Waste, cotton . . . . .	99,000	106,000	+7,000	+7.07
Wood (for pulp), . . . . .	47,244	48,077	+833	+1.76
Not classified in detail, . . . . .	8,191,931	8,028,572	-163,409	-1.99



## PAPER AND PAPER GOODS — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percentages
Bagging, . . . . .	tons	2,892½	3,403¼	+510¼	+17.66
Clay, . . . . .	tons	1,871½	2,140½	+269	+14.37
Paper, envelope . . . . .	tons	6,199	5,649	-550	-8.87
Paper, old . . . . .	tons	10,255¾	9,698¾	-557	-5.43
Paper shavings, . . . . .	tons	2,411¼	935½	-1,475¾	-61.20
Pulp, wood . . . . .	tons	44,728	46,683	+1,955	+4.37
Rags, cotton . . . . .	tons	15,092¾	12,419	-2,673¾	-17.72
Rags, linen . . . . .	tons	584¼	591½	+7½	+1.24
Rags (not specified), . . . . .	tons	45,482¾	36,575¼	-8,907½	-19.58
Waste, cotton . . . . .	tons	2,787	3,032	+245	+8.79
Wood (for pulp), . . . . .	cords	7,874	7,474	-400	-5.08

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Bagging, . . . . .	tons	\$24.36	\$23.38	-\$0.98	-4.02
Clay, . . . . .	tons	16.34	14.71	-1.63	-9.98
Paper, envelope . . . . .	tons	143.31	139.35	-3.96	-2.76
Paper, old . . . . .	tons	36.48	35.29	-1.19	-3.26
Paper shavings, . . . . .	tons	28.44	32.36	+3.92	+13.78
Pulp, wood . . . . .	tons	44.97	42.16	-2.81	-6.25
Rags, cotton . . . . .	tons	54.47	56.83	+2.36	+4.33
Rags, linen . . . . .	tons	96.97	96.47	-0.50	-0.52
Rags (not specified), . . . . .	tons	55.17	59.94	+4.77	+8.65
Waste, cotton . . . . .	tons	35.52	34.96	-0.56	-1.53
Wood (for pulp), . . . . .	cords	6.00	6.43	+0.43	+7.17

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percentages
Total value of goods made and work done, . . . . .	\$26,029,658	\$22,746,104	-\$3,283,554	-12.61
Cardboard, . . . . .	390,011	343,749	-46,262	-11.86
Envelopes, . . . . .	1,589,254	1,477,593	-111,661	-7.03
Paper:				
Book, . . . . .	2,759,425	2,622,850	-136,575	-4.95
Building, . . . . .	299,852	267,146	-32,706	-10.91
Card, . . . . .	423,264	367,965	-55,299	-13.06
Carpet-lining, . . . . .	148,116	144,817	-3,299	-2.23

## PAPER AND PAPER GOODS — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES — Concluded.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Paper:— Con.				
Hanging, . . . . .	\$164,207	\$123,997	—\$40,210	—24.49
Manila, . . . . .	367,869	279,570	—87,999	—23.92
News, . . . . .	677,700	693,000	+15,300	+2.26
Surface-coated, . . . . .	727,514	822,600	+95,086	+13.07
Wrapping, . . . . .	409,627	382,552	—27,075	—6.61
Writing, . . . . .	4,593,776	3,923,231	—670,545	—14.60
Paper (not specified), . . . . .	7,313,665	6,200,456	—1,113,209	—15.22
Not classified in detail, . . . . .	6,165,378	5,096,278	—1,069,100	—17.34

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
Cardboard, . . . . .	tons	4,133	3,575	—605	—14.54
Envelopes, . . . . .	thousand	1,622,617	1,718,388	+95,771	+5.90
Paper:					
Book, . . . . .	tons	25,140½	23,362½	—1,778	—7.07
Building, . . . . .	tons	4,458	4,048	—410	—9.20
Card, . . . . .	tons	4,722	4,142	—580	—12.28
Carpet-lining, . . . . .	tons	3,209	3,232¼	+23¼	+0.74
Hanging, . . . . .	tons	2,645½	2,414	—231½	—8.75
Manila, . . . . .	tons	5,105¼	4,451	—654¼	—12.82
News, . . . . .	tons	10,965	12,130	+1,165	+10.62
Surface-coated, . . . . .	tons	4,731	5,521	+740	+15.48
Wrapping, . . . . .	tons	4,558½	4,408	—150½	—3.30
Writing, . . . . .	tons	19,489	16,535¾	—2,953¾	—15.15
Paper (not specified), . . . . .	tons	54,788	47,879¼	—6,908¼	—12.61

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measure- ment	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Cardboard, . . . . .	tons	\$93.24	\$96.15	+\$2.91	+3.12
Envelopes, . . . . .	thousand	0.98	0.86	—0.12	—12.24
Paper:					
Book, . . . . .	tons	109.76	112.27	+2.51	+2.29
Building, . . . . .	tons	67.26	65.99	—1.27	—1.89
Card, . . . . .	tons	89.64	88.84	—0.80	—0.89

## PAPER AND PAPER GOODS — 1892, 1893 — Continued.

## GOODS MADE. AVERAGE VALUES — Concluded.

CLASSIFICATION.	Basis of Measure- ment	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Paper:— Con.					
Carpet-lining, . . . . .	tons	\$46.16	\$44.80	—\$1.36	—2.95
Hanging, . . . . .	tons	62.07	51.37	—10.70	—17.24
Manila, . . . . .	tous	72.06	62.88	—9.18	—12.74
News, . . . . .	tons	61.81	57.13	—4.68	—7.57
Surface-coated, . . . . .	tons	152.17	148.99	—3.18	—2.09
Wrapping, . . . . .	tons	89.86	86.79	—3.07	—3.42
Writing, . . . . .	tons	235.71	237.26	+1.55	+0.66
Paper (not specified), . . . . .	tons	133.49	129.50	—3.99	—2.99

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percentages
Average number, . . . . .	10,085	9,658	—427	—4.23
Smallest number, . . . . .	9,197	8,015	—1,182	—12.85
Greatest number, . . . . .	10,724	10,754	+30	+0.28
Excess of greatest over smallest number, . . . . .	1,527	2,739	+1,212	+79.37

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	5,253	4,499	9,752	5,548	4,570	10,118
February, . . . . .	5,281	4,554	9,835	5,598	4,591	10,189
March, . . . . .	5,395	4,616	10,011	5,671	4,620	10,291
April, . . . . .	5,388	4,669	10,057	5,609	4,692	10,301
May, . . . . .	5,430	4,637	10,067	5,578	4,581	10,159
June, . . . . .	5,476	4,654	10,130	5,553	4,517	10,070
July, . . . . .	5,519	4,613	10,132	5,322	4,460	9,782
August, . . . . .	5,443	4,571	10,014	5,080	4,077	9,157
September, . . . . .	5,471	4,654	10,125	4,827	4,032	8,859
October, . . . . .	5,588	4,718	10,306	4,845	4,099	8,944
November, . . . . .	5,587	4,696	10,283	4,942	4,121	9,063
December, . . . . .	5,593	4,639	10,232	5,052	4,150	9,202
During the entire year,* . . . . .	912	622	1,534	303	148	451

\* 20 establishments in 1892; 7 establishments in 1893.

## PAPER AND PAPER GOODS—1892, 1893—Concluded.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . .	\$4,269,230	\$3,957,802	—\$311,423	—7.29
Average yearly earnings, . . . . .	423.32	409.80	—13.52	—3.19

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	194	1,047	1,241	193	1,160	1,353
\$5 but under \$6, . . . . .	113	1,279	1,392	131	1,182	1,313
\$6 but under \$7, . . . . .	208	1,180	1,388	253	1,184	1,437
\$7 but under \$8, . . . . .	629	786	1,415	667	606	1,273
\$8 but under \$9, . . . . .	629	308	937	588	325	913
\$9 but under \$10, . . . . .	1,379	142	1,521	1,307	149	1,456
\$10 but under \$12, . . . . .	824	54	878	790	47	837
\$12 but under \$15, . . . . .	879	9	888	838	16	854
\$15 but under \$20, . . . . .	721	6	727	583	6	589
\$20 and over, . . . . .	198	—	198	201	—	201
TOTALS, . . . . .	5,774	4,811	10,585	5,551	4,675	10,226

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	84.98	73.66	—11.32	—13.32
Average number of days in operation, . .	289.99	276.52	—13.47	—4.64

## PERFUMES, TOILET ARTICLES, ETC. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (—), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	5	5	=	=
Number of private firms, . . . . .	3	3	=	=
Number of partners, . . . . .	3	3	=	=
Males, . . . . .	3	3	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	7	7	=	=
Males, . . . . .	7	7	=	=
Aggregates: partners and stockholders, .	10	10	=	=

## PERFUMES, TOILET ARTICLES, ETC. — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$149,000	\$147,450	—\$1,550	—1.04

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$143,445	\$196,640	+\$53,195	+37.08

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$283,481	\$252,419	—\$31,062	—10.96

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	43	39	—4	—9.30
Smallest number, . . . . .	37	31	—6	—16.22
Greatest number, . . . . .	48	49	+1	+2.08
Excess of greatest over smallest number, .	11	18	+7	+63.64

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	16	27	43	16	25	41
February, . . . . .	16	27	43	17	27	44
March, . . . . .	16	26	42	17	25	42
April, . . . . .	16	28	44	20	25	45
May, . . . . .	16	27	43	16	25	41
June, . . . . .	16	24	40	17	25	42
July, . . . . .	16	24	40	16	18	34



## PERFUMES, TOILET ARTICLES, ETC. — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	16	22	38	16	18	34
September, . . . . .	16	25	41	16	21	37
October, . . . . .	16	27	43	15	24	39
November, . . . . .	16	28	44	14	24	38
December, . . . . .	17	30	47	13	22	35
During the entire year,* . .	5	12	17	5	9	14

\* 2 establishments in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$16,318	\$15,616	—\$702	—4.30
Average yearly earnings, . . . . .	379.49	400.41	+20.92	+5.51

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	2	6	8	1	—	1
\$5 but under \$6, . . . . .	—	1	1	—	9	9
\$6 but under \$7, . . . . .	1	15	16	2	8	10
\$7 but under \$8, . . . . .	1	—	1	1	2	3
\$8 but under \$9, . . . . .	1	7	8	4	4	8
\$9 but under \$10, . . . . .	1	1	2	1	2	3
\$10 but under \$12, . . . . .	1	—	1	3	3	6
\$12 but under \$15, . . . . .	2	—	2	2	—	2
\$15 but under \$20, . . . . .	7	—	7	5	—	5
\$20 and over, . . . . .	—	—	—	1	—	1
TOTALS, . . . . .	16	30	46	20	28	48

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	80.00	60.00	—20.00	—25.00
Average number of days in operation, . . .	303.86	289.18	—14.68	—4.83



# PHOTOGRAPHS AND PHOTOGRAPHIC MATERIALS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	17	17	=	=
Number of private firms, . . . . .	16	16	=	=
Number of partners, . . . . .	20	19	-1	-5.00
Males, . . . . .	19	18	-1	-5.26
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	1	1	=	=
Number of stockholders, . . . . .	19	9	-10	-52.63
Males, . . . . .	19	9	-10	-52.63
Aggregates: partners and stockholders, .	39	28	-11	-28.21

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$206,925	\$172,844	-\$34,081	-16.47

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$103,272	\$60,772	-\$42,500	-41.15

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$317,583	\$236,766	-\$80,817	-25.45

PHOTOGRAPHS AND PHOTOGRAPHIC MATERIALS — 1892, 1893  
— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	157	128	—29	—18.47
Smallest number, . . . . .	131	104	—27	—20.61
Greatest number, . . . . .	174	146	—28	—16.09
Excess of greatest over smallest number, .	43	42	—1	—2.33

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	90	68	158	80	54	134
February, . . . . .	91	66	157	79	54	133
March, . . . . .	94	65	159	85	54	139
April, . . . . .	96	65	161	86	55	141
May, . . . . .	94	63	157	85	55	140
June, . . . . .	96	69	165	80	55	135
July, . . . . .	87	67	154	71	52	123
August, . . . . .	79	57	136	64	44	108
September, . . . . .	89	65	154	68	53	121
October, . . . . .	90	65	155	70	52	122
November, . . . . .	90	65	155	71	51	122
December, . . . . .	99	69	168	77	52	129
During the entire year,* . . . . .	15	11	26	13	10	23

\* 8 establishments in 1892; 7 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$99,905	\$80,876	—\$19,029	—19.05
Average yearly earnings, . . . . .	636.34	631.84	—4.50	—0.71

PHOTOGRAPHS AND PHOTOGRAPHIC MATERIALS—1892, 1893  
— Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	7	-	7	6	2	8
\$5 but under \$6, . . . .	3	2	5	2	1	3
\$6 but under \$7, . . . .	3	8	11	3	11	14
\$7 but under \$8, . . . .	3	7	10	3	5	8
\$8 but under \$9, . . . .	3	12	15	4	13	17
\$9 but under \$10, . . . .	6	9	15	9	10	19
\$10 but under \$12, . . . .	16	14	30	13	5	18
\$12 but under \$15, . . . .	22	15	37	18	5	23
\$15 but under \$20, . . . .	20	5	25	11	3	14
\$20 and over, . . . . .	23	1	24	19	-	19
TOTALS, . . . . .	106	73	179	88	55	143

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	56.35	46.94	-9.41	-16.70
Average number of days in operation, . .	304.22	301.32	-2.90	-0.95

## POLISHES AND DRESSING. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	29	29	=	=
Number of private firms, . . . . .	26	24	-2	-7.69
Number of partners, . . . . .	45	42	-3	-6.67
Males, . . . . .	42	38	-4	-9.52
Females, . . . . .	3	3	=	=
Special, . . . . .	-	1	+1	-
Number of corporations, . . . . .	3	5	+2	+66.67
Number of stockholders, . . . . .	31	39	+8	+25.81
Males, . . . . .	25	31	+6	+24.00
Females, . . . . .	5	7	+2	+40.00
Banks, trustees, etc., . . . . .	1	1	=	=
Aggregates: partners and stockholders, .	76	81	+5	+6.58

## POLISHES AND DRESSING — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$976,084	\$1,014,723	+\$33,639	+3.96

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$1,132,792	\$991,399	-\$141,393	-12.48

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, . . . . .	\$1,987,454	\$1,814,405	-\$173,049	-8.71

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	286	279	-7	-2.45
Smallest number, . . . . .	185	175	-10	-5.41
Greatest number, . . . . .	331	355	+24	+7.25
Excess of greatest over smallest number, . . . . .	146	180	+34	+23.29

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	151	113	264	156	86	242
February, . . . . .	152	114	266	162	107	269
March, . . . . .	154	130	284	162	118	280
April, . . . . .	152	154	306	165	158	323
May, . . . . .	151	155	306	164	163	322
June, . . . . .	160	157	317	158	167	325
July, . . . . .	162	148	310	151	135	286

## POLISHES AND DRESSING — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	140	89	229	140	129	269
September, . . . . .	156	144	300	131	118	249
October, . . . . .	153	133	286	139	168	307
November, . . . . .	150	127	277	135	114	249
December, . . . . .	162	107	269	132	97	229
During the entire year,* . . . . .	67	9	76	62	7	69

\* 13 establishments in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$139,184	\$136,845	—\$2,339	—1.68
Average yearly earnings, . . . . .	486.66	490.48	+3.82	+0.78

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	8	67	75	2	74	76
\$5 but under \$6, . . . . .	4	16	20	4	10	14
\$6 but under \$7, . . . . .	5	28	33	2	47	49
\$7 but under \$8, . . . . .	8	6	14	2	30	32
\$8 but under \$9, . . . . .	6	11	17	11	21	32
\$9 but under \$10, . . . . .	15	12	27	21	7	28
\$10 but under \$12, . . . . .	16	23	39	29	1	30
\$12 but under \$15, . . . . .	50	3	53	55	—	55
\$15 but under \$20, . . . . .	36	—	36	29	—	29
\$20 and over, . . . . .	18	—	18	19	—	19
TOTALS, . . . . .	166	166	332	174	190	364

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	65.17	54.28	—10.89	—16.71
Average number of days in operation, . . . . .	294.48	286.08	—8.40	—2.85

# **PRINTING, PUBLISHING, AND BOOKBINDING.** **1892, 1893.**

## **ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	34	34	=	=
Number of private firms, . . . . .	24	23	-1	-4.17
Number of partners, . . . . .	41	39	-2	-4.88
Males, . . . . .	40	37	-3	-7.50
Females, . . . . .	1	1	=	=
Special, . . . . .	-	1	+1	-
Number of corporations, . . . . .	10	11	+1	+10.00
Number of stockholders, . . . . .	93	99	+6	+6.45
Males, . . . . .	74	78	+4	+5.41
Females, . . . . .	17	20	+3	+17.65
Banks, trustees, etc., . . . . .	2	1	-1	-50.00
Aggregates: partners and stockholders, .	134	138	+4	+2.99

## **CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$3,840,023	\$3,921,071	+\$81,048	+2.11

## **STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$1,210,015	\$1,203,208	-\$6,807	-0.56

## **GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,397,204	\$4,447,606	+\$50,402	+1.15



PRINTING, PUBLISHING, AND BOOKBINDING — 1892, 1893  
— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number . . . . .	2,194	2,141	-53	-2.42
Smallest number, . . . . .	2,038	1,995	-43	-2.11
Greatest number, . . . . .	2,379	2,315	-64	-2.69
Excess of greatest over smallest number, .	341	320	-21	-6.16

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,550	680	2,230	1,514	681	2,195
February, . . . . .	1,532	676	2,208	1,512	657	2,169
March, . . . . .	1,545	668	2,213	1,515	659	2,174
April, . . . . .	1,517	650	2,167	1,511	660	2,171
May, . . . . .	1,504	654	2,158	1,511	627	2,138
June, . . . . .	1,497	646	2,143	1,503	659	2,162
July, . . . . .	1,498	644	2,142	1,495	671	2,166
August, . . . . .	1,482	619	2,101	1,458	627	2,085
September, . . . . .	1,502	631	2,133	1,464	648	2,112
October, . . . . .	1,542	685	2,227	1,501	655	2,156
November, . . . . .	1,561	683	2,244	1,505	641	2,146
December, . . . . .	1,601	725	2,326	1,501	679	2,180
During the entire year,* . .	191	89	280	70	32	102

\* 9 establishments in 1892; 7 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,198,585	\$1,238,863	+\$40,218	+3.36
Average yearly earnings, . . . . .	546.30	578.61	+32.31	+5.91

**PRINTING, PUBLISHING, AND BOOKBINDING — 1892, 1893**  
— Concluded.

**CLASSIFIED WEEKLY WAGES.**

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	179	185	364	194	182	376
\$5 but under \$6, . . . .	82	100	182	94	99	193
\$6 but under \$7, . . . .	68	128	196	76	147	223
\$7 but under \$8, . . . .	68	124	192	50	142	192
\$8 but under \$9, . . . .	61	82	143	56	59	115
\$9 but under \$10, . . . .	97	39	136	82	43	125
\$10 but under \$12, . . . .	210	60	270	199	49	248
\$12 but under \$15, . . . .	199	24	223	195	20	215
\$15 but under \$20, . . . .	351	8	359	329	12	341
\$20 and over, . . . . .	314	3	317	310	3	313
<b>TOTALS, . . . . .</b>	<b>1,629</b>	<b>753</b>	<b>2,382</b>	<b>1,585</b>	<b>756</b>	<b>2,341</b>

**PROPORTION OF BUSINESS DONE.**

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	72.53	66.06	—6.47	—8.92
Average number of days in operation, . .	305.14	303.01	—2.13	—0.70

**PRINT WORKS, DYE WORKS, AND BLEACHERIES.**  
**1892, 1893.**

**ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (—), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	44	44	=	=
Number of private firms, . . . . .	30	30	=	=
Number of partners, . . . . .	43	44	+1	+2.33
Males, . . . . .	38	40	+2	+5.26
Females, . . . . .	3	4	+1	+33.33
Special, . . . . .	2	—	—2	—100.00
Number of corporations, . . . . .	14	14	=	=
Number of stockholders, . . . . .	1,528	1,541	+13	+0.85
Males, . . . . .	613	606	—7	—1.14
Females, . . . . .	463	481	+18	+3.89
Banks, trustees, etc., . . . . .	452	454	+2	+0.44
Aggregates: partners and stockholders, .	1,571	1,585	+14	+0.89

PRINT WORKS, DYE WORKS, AND BLEACHERIES — 1892, 1893  
— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$15,551,307	\$17,138,649	+\$1,587,342	+10.21

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$14,117,102	\$13,664,265	—\$452,837	—3.21

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$20,260,330	\$18,956,125	—\$1,304,205	—6.44

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	6,014	5,809	—205	—3.41
Smallest number, . . . . .	5,371	3,583	—1,788	—33.29
Greatest number, . . . . .	6,506	6,654	+148	+2.27
Excess of greatest over smallest number, .	1,135	3,071	+1,936	+170.57

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	4,654	1,265	5,919	4,890	1,310	6,200
February, . . . . .	4,748	1,269	6,017	4,916	1,306	6,222
March, . . . . .	4,786	1,307	6,093	4,999	1,375	6,374
April, . . . . .	4,648	1,336	5,984	5,009	1,342	6,351
May, . . . . .	4,655	1,309	5,964	4,984	1,328	6,312
June, . . . . .	4,711	1,311	6,022	4,918	1,298	6,216
July, . . . . .	4,493	1,238	5,731	4,475	1,216	5,691

PRINT WORKS, DYE WORKS, AND BLEACHERIES—1892, 1893  
—Concluded.

## PERSONS EMPLOYED: BY MONTHS—Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	4,732	1,272	6,004	4,205	871	5,076
September, . . . . .	4,758	1,306	6,064	3,113	897	4,010
October, . . . . .	4,796	1,339	6,135	4,306	1,268	5,574
November, . . . . .	4,756	1,314	6,070	4,519	1,263	5,782
December, . . . . .	4,717	1,288	6,005	4,603	1,253	5,856
During the entire year,* . .	31	17	48	28	18	46

\* 6 establishments in 1892; 5 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$2,599,143	\$2,425,173	—\$173,970	—6.69
Average yearly earnings, . . . . .	432.18	417.49	—14.69	—3.40

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	670	315	985	619	266	885
\$5 but under \$6, . . . . .	208	363	571	306	368	674
\$6 but under \$7, . . . . .	623	497	1,120	497	501	998
\$7 but under \$8, . . . . .	1,222	138	1,360	1,270	166	1,436
\$8 but under \$9, . . . . .	622	58	680	677	72	749
\$9 but under \$10, . . . . .	612	42	654	643	36	679
\$10 but under \$12, . . . . .	387	23	410	415	18	433
\$12 but under \$15, . . . . .	318	3	321	319	4	323
\$15 but under \$20, . . . . .	166	1	167	189	1	190
\$20 and over, . . . . .	250	—	250	249	—	249
TOTALS, . . . . .	5,078	1,440	6,518	5,184	1,492	6,616

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	68.09	61.86	—6.23	—9.15
Average number of days in operation, . . .	300.13	266.82	—33.31	—11.10

# RAILROAD CONSTRUCTION AND EQUIPMENT. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	14	14	=	=
Number of private firms, . . . . .	2	2	=	=
Number of partners, . . . . .	3	3	=	=
Males, . . . . .	3	3	=	=
Number of corporations, . . . . .	12	12	=	=
Number of stockholders, . . . . .	40	42	+2	+5.00
Males, . . . . .	21	22	+1	+4.76
Females, . . . . .	7	7	=	=
Banks, trustees, etc., . . . . .	2	3	+1	+50.00
Railroads, . . . . .	10	10	=	=
Aggregates: partners and stockholders, .	43	45	+2	+4.65

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$1,777,000	\$1,762,000	-\$15,000	-0.84

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$2,226,418	\$4,674,579	+\$2,448,161	+109.96

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,275,835	\$7,255,656	+\$2,979,821	+69.69

RAILROAD CONSTRUCTION AND EQUIPMENT—1892, 1893  
— Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,971	3,715	+744	+25.04
Smallest number, . . . . .	2,557	3,004	+447	+17.48
Greatest number, . . . . .	3,288	4,410	+1,122	+34.12
Excess of greatest over smallest number, .	731	1,406	+675	+92.34

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	2,791	-	2,791	3,760	6	3,766
February, . . . . .	2,957	-	2,957	3,897	4	3,901
March, . . . . .	3,031	-	3,031	4,229	4	4,233
April, . . . . .	3,036	-	3,036	4,308	5	4,313
May, . . . . .	3,078	-	3,078	4,099	9	4,108
June, . . . . .	3,005	-	3,005	3,961	4	3,965
July, . . . . .	2,964	-	2,964	3,700	46	3,746
August, . . . . .	2,814	-	2,814	3,405	47	3,452
September, . . . . .	2,842	-	2,842	3,296	47	3,343
October, . . . . .	2,983	-	2,983	3,219	46	3,265
November, . . . . .	3,081	-	3,081	3,218	41	3,259
December, . . . . .	2,965	-	2,965	3,169	42	3,211

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,783,725	\$2,286,271	+\$502,546	+28.17
Average yearly earnings, . . . . .	600.38	615.42	+15.04	+2.51



RAILROAD CONSTRUCTION AND EQUIPMENT—1892, 1893  
—Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	22	-	22	39	1	40
\$5 but under \$6, . . . .	11	-	11	31	4	35
\$6 but under \$7, . . . .	48	-	48	66	14	80
\$7 but under \$8, . . . .	68	-	68	123	18	141
\$8 but under \$9, . . . .	143	-	143	128	8	136
\$9 but under \$10, . . . .	571	-	571	664	-	664
\$10 but under \$12, . . . .	559	-	559	961	-	961
\$12 but under \$15, . . . .	1,337	-	1,337	1,948	1	1,949
\$15 but under \$20, . . . .	508	-	508	916	-	916
\$20 and over, . . . . .	44	-	44	101	-	101
TOTALS, . . . . .	3,311	-	3,311	4,977	46	5,023

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	89.43	83.36	-6.07	-6.79
Average number of days in operation, . .	300.63	291.64	-8.99	-2.99

## RUBBER AND ELASTIC GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	34	34	=	=
Number of private firms, . . . . .	18	18	=	=
Number of partners, . . . . .	31	32	+1	+3.23
Males, . . . . .	30	31	+1	+3.33
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	16	16	=	=
Number of stockholders, . . . . .	689	769	+80	+11.61
Males, . . . . .	375	407	+32	+8.53
Females, . . . . .	253	295	+42	+16.60
Banks, trustees, etc., . . . . .	61	67	+6	+9.84
Aggregates: partners and stockholders, .	720	801	+81	+11.25

## RUBBER AND ELASTIC GOODS — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$10,344,439	\$11,148,812	+\$804,373	+7.78

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$9,824,076	\$9,916,476	+\$92,400	+0.94

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$14,244,814	\$14,506,016	+\$261,202	+1.83

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	6,021	6,161	+140	+2.33
Smallest number, . . . . .	5,353	5,263	-90	-1.68
Greatest number, . . . . .	6,639	6,833	+194	+2.92
Excess of greatest over smallest number, .	1,286	1,570	+284	+22.08

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	3,186	2,524	5,710	3,460	2,963	6,423
February, . . . . .	3,231	2,570	5,801	3,557	2,980	6,537
March, . . . . .	3,270	2,623	5,893	3,593	3,021	6,614
April, . . . . .	3,353	2,703	6,056	3,574	3,063	6,637
May, . . . . .	3,281	2,422	5,703	3,483	2,979	6,462
June, . . . . .	3,329	2,576	5,905	3,395	2,912	6,307
July, . . . . .	3,384	2,661	6,045	3,324	2,609	5,933

## RUBBER AND ELASTIC GOODS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	3,398	2,577	5,975	3,184	2,533	5,717
September, . . . . .	3,392	2,715	6,107	3,131	2,513	5,644
October, . . . . .	3,474	2,800	6,274	3,173	2,690	5,863
November, . . . . .	3,479	2,890	6,369	3,151	2,745	5,896
December, . . . . .	3,500	2,899	6,399	3,119	2,777	5,896
During the entire year,* . .	117	263	380	31	-	31

\* 7 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$2,535,224	\$2,856,355	+\$321,131	+12.67
Average yearly earnings, . . . . .	421.06	463.62	+42.56	+10.11

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	125	486	611	170	535	705
\$5 but under \$6, . . . . .	112	287	399	126	312	438
\$6 but under \$7, . . . . .	113	416	529	98	360	458
\$7 but under \$8, . . . . .	206	496	702	202	527	729
\$8 but under \$9, . . . . .	465	420	885	489	412	901
\$9 but under \$10, . . . . .	779	446	1,225	814	443	1,257
\$10 but under \$12, . . . . .	585	319	904	497	369	866
\$12 but under \$15, . . . . .	562	52	614	546	94	640
\$15 but under \$20, . . . . .	505	11	516	530	7	537
\$20 and over, . . . . .	82	-	82	90	-	90
TOTALS, . . . . .	3,534	2,933	6,467	3,562	3,059	6,621

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	74.59	65.74	-8.85	-11.86
Average number of days in operation, . . .	281.15	284.55	+3.40	+1.21

**SADDLERY AND HARNESS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	38	38	=	=
Number of private firms, . . . . .	36	36	=	=
Number of partners, . . . . .	44	43	-1	-2.27
Males, . . . . .	44	42	-2	-4.55
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	82	79	-3	-3.66
Males, . . . . .	61	65	+4	+6.56
Females, . . . . .	21	14	-7	-33.33
Aggregates: partners and stockholders, .	126	122	-4	-3.17

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$274,368	\$256,850	-\$17,518	-6.38

**STOCK USED. AGGREGATE VALUES.**

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$243,544	\$178,077	-\$65,467	-26.88

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$518,697	\$386,487	-\$132,210	-25.49

## SADDLERY AND HARNESS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	258	206	-52	-20.16
Smallest number, . . . . .	233	168	-65	-27.90
Greatest number, . . . . .	284	242	-42	-14.79
Excess of greatest over smallest number, .	51	74	+23	+45.10

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	221	23	244	211	18	229
February, . . . . .	226	23	249	204	19	223
March, . . . . .	228	22	250	203	18	221
April, . . . . .	241	23	264	206	15	221
May, . . . . .	244	25	269	197	21	218
June, . . . . .	245	24	269	200	18	218
July, . . . . .	251	24	275	188	18	206
August, . . . . .	250	25	275	178	15	193
September, . . . . .	246	26	272	167	14	181
October, . . . . .	232	24	256	163	15	178
November, . . . . .	219	24	243	166	13	179
December, . . . . .	212	23	235	170	14	184
During the entire year,* . .	88	5	93	52	-	52

\* 22 establishments in 1892; 17 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$140,956	\$106,704	-\$34,252	-24.30
Average yearly earnings, . . . . .	546.34	517.98	-28.36	-5.19

## SADDLERY AND HARNESS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	9	5	14	11	7	18
\$5 but under \$6, . . . .	4	1	5	3	3	6
\$6 but under \$7, . . . .	10	11	21	21	5	26
\$7 but under \$8, . . . .	11	3	14	12	4	16
\$8 but under \$9, . . . .	13	2	15	14	3	17
\$9 but under \$10, . . . .	37	1	38	22	-	22
\$10 but under \$12, . . . .	44	-	44	36	-	36
\$12 but under \$15, . . . .	61	-	61	56	-	56
\$15 but under \$20, . . . .	37	-	37	35	-	35
\$20 and over, . . . . .	14	-	14	8	-	8
TOTALS, . . . . .	240	23	263	218	22	240

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	66.87	53.34	-13.53	-20.23
Average number of days in operation, . . .	303.55	296.37	-7.18	-2.37

SCIENTIFIC INSTRUMENTS AND APPLIANCES.  
1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	15	15	=	=
Number of private firms, . . . . .	12	12	=	=
Number of partners, . . . . .	22	22	=	=
Males, . . . . .	21	21	=	=
Special, . . . . .	1	1	=	=
Number of corporations, . . . . .	3	3	=	=
Number of stockholders, . . . . .	68	67	-1	-1.47
Males, . . . . .	59	58	-1	-1.69
Females, . . . . .	4	4	=	=
Banks, trustees, etc., . . . . .	5	5	=	=
Aggregates: partners and stockholders, . .	90	89	-1	-1.11



## SCIENTIFIC INSTRUMENTS AND APPLIANCES — 1892, 1893

— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$1,624,499	\$1,602,450	—\$22,049	—1.36

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$848,251	\$653,096	—\$195,155	—23.01

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,739,197	\$1,583,069	—\$156,128	—8.98

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	1,195	1,076	—119	—9.96
Smallest number, . . . . .	1,024	798	—226	—22.07
Greatest number, . . . . .	1,351	1,270	—81	—6.00
Excess of greatest over smallest number, .	327	472	+145	+44.34

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	993	133	1,126	1,071	142	1,213
February, . . . . .	936	133	1,119	1,082	144	1,226
March, . . . . .	1,005	141	1,146	1,083	146	1,234
April, . . . . .	1,059	155	1,214	1,072	151	1,223
May, . . . . .	1,078	154	1,232	1,068	157	1,225
June, . . . . .	1,082	154	1,236	1,039	155	1,194
July, . . . . .	1,112	152	1,264	984	148	1,132

SCIENTIFIC INSTRUMENTS AND APPLIANCES — 1892, 1893  
— Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	1,077	151	1,228	869	139	1,008
September, . . . . .	1,041	151	1,192	723	119	842
October, . . . . .	1,054	156	1,210	753	127	880
November, . . . . .	1,076	155	1,231	755	133	888
December, . . . . .	1,083	156	1,239	700	133	833
During the entire year,* . .	7	2	9	7	2	9

\* 4 establishments in 1892 and in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$535,271	\$449,456	—\$85,815	—16.03
Average yearly earnings, . . . . .	447.93	417.71	—30.22	—6.75

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	111	58	169	89	56	145
\$5 but under \$6, . . . . .	75	29	104	68	25	93
\$6 but under \$7, . . . . .	99	54	153	84	50	134
\$7 but under \$8, . . . . .	119	8	127	109	8	117
\$8 but under \$9, . . . . .	100	4	104	84	4	88
\$9 but under \$10, . . . . .	140	3	143	181	1	182
\$10 but under \$12, . . . . .	139	2	141	142	3	145
\$12 but under \$15, . . . . .	182	2	184	168	1	169
\$15 but under \$20, . . . . .	166	3	169	165	3	168
\$20 and over, . . . . .	39	4	43	27	-	27
TOTALS, . . . . .	1,170	167	1,337	1,117	151	1,268

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	64.00	55.80	—8.20	—12.81
Average number of days in operation, . . .	301.22	289.49	—11.73	—3.89

## SHIPBUILDING. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	56	56	=	=
Number of private firms, . . . . .	54	54	=	=
Number of partners, . . . . .	76	74	-2	-2.63
Males, . . . . .	75	73	-2	-2.67
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	28	49	+21	+75.00
Males, . . . . .	22	38	+16	+72.73
Females, . . . . .	5	11	+6	+120.00
Banks, trustees, etc., . . . . .	1	-	-1	-100.00
Aggregates: partners and stockholders, .	104	123	+19	+18.27

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$749,687	\$924,913	+\$175,226	+23.37

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$433,606	\$463,816	+\$30,210	+6.97

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,191,999	\$1,114,403	-\$77,596	-6.51

## SHIPBUILDING — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	665	672	+7	+1.05
Smallest number, . . . . .	400	408	+8	+2.00
Greatest number, . . . . .	1,011	1,076	+65	+6.43
Excess of greatest over smallest number, .	611	668	+57	+9.33

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	609	—	609	540	—	540
February, . . . . .	593	—	593	553	—	553
March, . . . . .	661	—	661	664	—	664
April, . . . . .	735	—	735	873	—	873
May, . . . . .	741	—	741	912	—	912
June, . . . . .	712	—	712	812	—	812
July, . . . . .	630	—	630	728	—	728
August, . . . . .	574	—	574	611	—	611
September, . . . . .	583	—	583	540	—	540
October, . . . . .	633	—	633	608	—	608
November, . . . . .	702	—	702	632	—	632
December, . . . . .	766	—	766	572	—	572
During the entire year,* . .	74	—	74	38	—	38

\* 10 establishments in 1892; 7 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$467,672	\$458,900	—\$8,772	—1.88
Average yearly earnings, . . . . .	703.27	682.89	—20.38	—2.90

## SHIPBUILDING — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	35	—	35	61	—	61
\$5 but under \$6, . . . .	13	—	13	31	—	31
\$6 but under \$7, . . . .	19	—	19	20	—	20
\$7 but under \$8, . . . .	51	—	51	35	—	35
\$8 but under \$9, . . . .	45	—	45	20	—	20
\$9 but under \$10, . . . .	77	—	77	113	—	113
\$10 but under \$12, . . . .	145	—	145	114	—	114
\$12 but under \$15, . . . .	224	—	224	242	—	242
\$15 but under \$20, . . . .	381	—	381	402	—	402
\$20 and over, . . . . .	96	—	96	107	—	107
TOTALS, . . . . .	1,086	—	1,086	1,145	—	1,145

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	44.16	40.82	—3.34	—7.56
Average number of days in operation, . .	295.98	293.40	—2.58	—0.87

## SILK AND SILK GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (—), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	12	12	=	=
Number of private firms, . . . . .	6	5	—1	—16.67
Number of partners, . . . . .	10	7	—3	—30.00
Males, . . . . .	9	6	—3	—33.33
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	6	7	+1	+16.67
Number of stockholders, . . . . .	243	217	—26	—10.70
Males, . . . . .	194	172	—22	—11.34
Females, . . . . .	47	40	—7	—14.89
Banks, trustees, etc., . . . . .	2	5	+3	+150.00
Aggregates: partners and stockholders, .	253	224	—29	—11.46

## SILK AND SILK GOODS — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$2,345,741	\$2,631,460	+\$285,719	+12.18

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$3,138,633	\$2,736,744	—\$401,889	—12.80

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,952,024	\$3,939,629	—\$1,012,395	—20.44

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,343	2,233	—110	—4.69
Smallest number, . . . . .	2,185	1,851	—334	—15.29
Greatest number, . . . . .	2,495	2,518	+23	+0.92
Excess of greatest over smallest number, .	310	667	+357	+115.16

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	667	1,590	2,257	718	1,646	2,364
February, . . . . .	685	1,592	2,277	721	1,658	2,379
March, . . . . .	718	1,617	2,335	716	1,636	2,352
April, . . . . .	706	1,644	2,350	727	1,665	2,392
May, . . . . .	714	1,662	2,376	720	1,646	2,366
June, . . . . .	707	1,611	2,318	742	1,659	2,401
July, . . . . .	713	1,611	2,324	724	1,616	2,340



## SILK AND SILK GOODS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	716	1,546	2,262	681	1,498	2,179
September, . . . . .	712	1,622	2,334	617	1,338	1,955
October, . . . . .	721	1,671	2,392	642	1,378	2,020
November, . . . . .	737	1,719	2,456	639	1,365	2,004
December, . . . . .	731	1,705	2,436	630	1,389	2,019
During the entire year,* . . . . .	10	43	53	-	-	-

\* 2 establishments in 1892.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$798,801	\$729,114	—\$69,687	—8.72
Average yearly earnings, . . . . .	340.93	326.52	—14.41	—4.23

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	72	355	427	70	341	411
\$5 but under \$6, . . . . .	79	526	605	80	491	571
\$6 but under \$7, . . . . .	96	374	470	99	438	537
\$7 but under \$8, . . . . .	59	129	188	51	156	207
\$8 but under \$9, . . . . .	62	65	127	61	66	127
\$9 but under \$10, . . . . .	80	68	148	94	73	167
\$10 but under \$12, . . . . .	101	147	248	100	110	210
\$12 but under \$15, . . . . .	135	22	157	149	23	172
\$15 but under \$20, . . . . .	79	1	80	73	1	74
\$20 and over, . . . . .	30	-	30	27	-	27
TOTALS, . . . . .	793	1,687	2,480	804	1,699	2,503

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	75.00	49.75	—25.25	—33.67
Average number of days in operation, . . . . .	300.71	261.73	—38.98	—12.96

## SPORTING AND ATHLETIC GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	7	7	=	=
Number of private firms, . . . . .	5	5	=	=
Number of partners, . . . . .	8	8	=	=
Males, . . . . .	7	7	=	=
Special, . . . . .	1	1	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	10	10	=	=
Males, . . . . .	10	10	=	=
Aggregates: partners and stockholders, .	18	18	=	=

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$244,013	\$246,726	+\$2,713	+1.11

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$166,503	\$139,947	-\$26,556	-15.95

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$449,765	\$335,050	-\$114,715	-25.51

## SPORTING AND ATHLETIC GOODS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	313	283	—30	—9.58
Smallest number, . . . . .	186	155	—31	—16.67
Greatest number, . . . . .	420	364	—56	—13.33
Excess of greatest over smallest number, .	234	209	—25	—10.68

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	289	43	332	322	37	359
February, . . . . .	272	46	318	300	36	336
March, . . . . .	257	45	302	310	37	347
April, . . . . .	241	43	284	289	39	328
May, . . . . .	245	40	285	285	23	308
June, . . . . .	236	40	276	288	24	312
July, . . . . .	203	27	230	238	14	252
August, . . . . .	250	28	278	175	10	185
September, . . . . .	236	36	322	206	17	223
October, . . . . .	317	37	354	214	20	234
November, . . . . .	346	41	387	227	22	249
December, . . . . .	337	42	379	237	29	266
During the entire year,* . .	87	24	111	2	—	2

\* 3 establishments in 1892; 1 establishment in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$157,733	\$134,689	—\$23,044	—14.61
Average yearly earnings, . . . . .	503.94	475.93	—28.01	—5.56

## SPORTING AND ATHLETIC GOODS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	33	—	33	31	8	39
\$5 but under \$6, . . . . .	17	2	19	8	5	13
\$6 but under \$7, . . . . .	16	23	44	9	11	20
\$7 but under \$8, . . . . .	17	4	21	17	5	22
\$8 but under \$9, . . . . .	21	1	22	17	7	24
\$9 but under \$10, . . . . .	67	—	67	93	1	94
\$10 but under \$12, . . . . .	94	—	94	72	—	72
\$12 but under \$15, . . . . .	56	—	56	56	—	56
\$15 but under \$20, . . . . .	37	—	37	29	—	29
\$20 and over, . . . . .	10	—	10	6	—	6
TOTALS, . . . . .	368	35	403	338	37	375

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . . .	62.86	52.57	—10.29	—16.37
Average number of days in operation, . . . . .	303.31	280.93	—22.38	—7.38

## STONE. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (—), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . . . .	175	175	=	=
Number of private firms, . . . . .	161	161	=	=
Number of partners, . . . . .	256	248	—8	—3.13
Males, . . . . .	250	240	—10	—4.00
Females, . . . . .	6	8	+2	+33.33
Number of corporations, . . . . .	14	14	=	=
Number of stockholders, . . . . .	407	401	—6	—1.47
Males, . . . . .	290	288	—2	—0.69
Females, . . . . .	107	103	—4	—3.74
Banks, trustees, etc., . . . . .	10	10	=	=
Aggregates: partners and stockholders, . . . . .	663	649	—14	—2.11

## STONE — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$3,216,415	\$3,190,999	—\$25,416	—0.79

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$1,031,177	\$1,057,258	+\$26,081	+2.53

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,036,599	\$4,218,530	+\$181,931	+4.51

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	3,424	3,894	+470	+13.73
Smallest number, . . . . .	1,914	2,520	+606	+31.66
Greatest number, . . . . .	5,039	5,103	+64	+1.27
Excess of greatest over smallest number, .	3,125	2,583	—542	—17.34

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	3,138	—	3,138	3,304	—	3,304
February, . . . . .	3,215	—	3,215	3,287	—	3,287
March, . . . . .	3,458	—	3,458	3,602	—	3,602
April, . . . . .	4,133	—	4,133	4,028	—	4,028
May, . . . . .	3,152	—	3,152	4,250	—	4,250
June, . . . . .	2,550	—	2,550	4,393	—	4,393
July, . . . . .	2,822	—	2,822	4,153	—	4,153

## STONE — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	3,167	-	3,167	4,045	-	4,045
September, . . . . .	3,466	-	3,466	4,034	-	4,034
October, . . . . .	4,241	-	4,241	3,890	-	3,890
November, . . . . .	4,033	-	4,033	3,581	-	3,581
December, . . . . .	3,567	-	3,567	2,995	-	2,995
During the entire year,* . . .	298	-	298	386	-	386

\* 14 establishments in 1892; 13 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,883,009	\$2,097,036	+\$209,027	+11.07
Average yearly earnings, . . . . .	551.40	538.53	-12.87	-2.33

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	84	-	84	80	-	80
\$5 but under \$6, . . . . .	143	-	143	146	-	146
\$6 but under \$7, . . . . .	146	-	146	206	-	206
\$7 but under \$8, . . . . .	157	-	157	177	-	177
\$8 but under \$9, . . . . .	188	-	188	231	-	231
\$9 but under \$10, . . . . .	398	-	398	514	-	514
\$10 but under \$12, . . . . .	1,007	-	1,007	994	-	994
\$12 but under \$15, . . . . .	862	-	862	997	-	997
\$15 but under \$20, . . . . .	1,310	-	1,310	1,450	-	1,450
\$20 and over, . . . . .	271	-	271	306	-	306
TOTALS, . . . . .	4,566	-	4,566	5,101	-	5,101

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	57.08	56.00	-1.08	-1.89
Average number of days in operation, . . .	274.26	283.07	+8.81	+3.21



**STRAW AND PALM LEAF GOODS. 1892, 1893.****ESTABLISHMENTS, PARTNERS, ETC.**

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	20	20	=	=
Number of private firms, . . . . .	18	18	=	=
Number of partners, . . . . .	40	38	-2	-5.00
Males, . . . . .	39	37	-2	-5.13
Females, . . . . .	1	1	=	=
Number of corporations, . . . . .	2	2	=	=
Number of stockholders, . . . . .	15	16	+1	+6.67
Males, . . . . .	10	10	=	=
Females, . . . . .	5	5	=	=
Banks, trustees, etc., . . . . .	-	1	+1	-
Aggregates: partners and stockholders, .	55	54	-1	-1.82

**CAPITAL INVESTED.**

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$1,348,327	\$2,022,044	+\$173,717	+9.40

**STOCK USED. AGGREGATE VALUES.**

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$2,347,222	\$2,381,505	+\$34,283	+1.46

**GOODS MADE. AGGREGATE VALUES.**

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$4,509,264	\$4,576,766	+\$67,502	+1.50

## STRAW AND PALM LEAF GOODS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	2,373	2,335	-38	-1.60
Smallest number, . . . . .	583	451	-132	-22.64
Greatest number, . . . . .	4,022	4,079	+57	+1.42
Excess of greatest over smallest number, .	3,439	3,628	+189	+5.50

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	1,167	2,086	3,253	1,261	2,355	3,616
February, . . . . .	1,264	2,444	3,708	1,317	2,598	3,915
March, . . . . .	1,268	2,552	3,820	1,321	2,649	3,970
April, . . . . .	1,230	2,442	3,672	1,272	2,573	3,850
May, . . . . .	1,002	2,043	3,050	1,013	2,199	3,212
June, . . . . .	551	908	1,459	616	989	1,605
July, . . . . .	356	409	765	312	341	653
August, . . . . .	523	411	934	446	337	783
September, . . . . .	630	613	1,245	494	424	918
October, . . . . .	787	1,000	1,787	677	773	1,450
November, . . . . .	872	1,220	2,092	815	1,114	1,929
December, . . . . .	956	1,716	2,672	993	1,645	2,643

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,136,069	\$1,143,257	+\$7,188	+0.63
Average yearly earnings, . . . . .	478.75	489.62	+10.87	+2.27

## STRAW AND PALM LEAF GOODS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	30	219	249	34	165	199
\$5 but under \$6, . . . .	23	211	234	34	177	211
\$6 but under \$7, . . . .	49	288	337	47	246	293
\$7 but under \$8, . . . .	81	238	319	81	208	289
\$8 but under \$9, . . . .	63	523	591	83	508	591
\$9 but under \$10, . . . .	249	286	535	223	373	596
\$10 but under \$12, . . . .	220	311	531	272	323	595
\$12 but under \$15, . . . .	429	345	774	363	366	729
\$15 but under \$20, . . . .	147	115	262	180	164	344
\$20 and over, . . . . .	39	28	67	33	18	51
TOTALS, . . . . .	1,330	2,569	3,899	1,350	2,543	3,898

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	75.15	70.30	-4.85	-6.45
Average number of days in operation, . . .	267.27	264.26	-3.01	-1.13

## TALLOW, CANDLES, SOAP, AND GREASE. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	62	62	=	=
Number of private firms, . . . . .	59	58	-1	-1.69
Number of partners, . . . . .	83	81	-2	-2.41
Males, . . . . .	83	80	-3	-3.61
Females, . . . . .	-	1	+1	-
Number of corporations, . . . . .	3	4	+1	+33.33
Number of stockholders, . . . . .	11	18	+7	+63.64
Males, . . . . .	10	11	+1	+10.00
Females, . . . . .	1	7	+6	+600.00
Aggregates: partners and stockholders, . .	94	99	+5	+5.32

TALLOW, CANDLES, SOAP, AND GREASE — 1892, 1893  
— Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . .	\$1,689,968	\$1,786,575	+\$96,607	+5.72

## STOCK USED. AGGREGATE VALUES.

STOCK USED	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . .	\$2,354,632	\$2,336,150	—\$18,482	—0.78

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$3,432,877	\$3,414,700	—\$18,177	—0.53

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	708	693	—15	—2.12
Smallest number, . . . . .	617	581	—36	—5.83
Greatest number, . . . . .	790	778	—12	—1.52
Excess of greatest over smallest number, .	173	197	+24	+13.87

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	527	59	586	617	92	709
February, . . . . .	539	69	608	620	92	712
March, . . . . .	555	100	655	604	45	649
April, . . . . .	577	103	680	617	64	681
May, . . . . .	608	122	730	627	93	720
June, . . . . .	614	114	728	629	112	741
July, . . . . .	624	118	742	608	110	718

TALLOW, CANDLES, SOAP, AND GREASE—1892, 1893  
— Concluded.

PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	623	126	749	586	100	686
September, . . . . .	619	115	734	582	89	671
October, . . . . .	623	98	721	574	89	663
November, . . . . .	636	111	747	586	82	668
December, . . . . .	631	122	753	575	75	650
During the entire year,* . .	94	4	98	89	1	90

\* 26 establishments in 1892; 24 establishments in 1893.

WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$330,940	\$337,003	+\$6,063	+1.83
Average yearly earnings, . . . . .	467.43	486.30	+18.87	+4.04

CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	23	103	126	15	107	122
\$5 but under \$6, . . . . .	14	12	26	13	5	18
\$6 but under \$7, . . . . .	12	5	17	19	7	26
\$7 but under \$8, . . . . .	52	2	54	26	1	27
\$8 but under \$9, . . . . .	75	2	77	48	—	48
\$9 but under \$10, . . . . .	144	—	144	179	2	181
\$10 but under \$12, . . . . .	152	—	152	188	—	188
\$12 but under \$15, . . . . .	103	1	109	110	1	111
\$15 but under \$20, . . . . .	40	—	40	49	—	49
\$20 and over, . . . . .	14	—	14	15	—	15
TOTALS, . . . . .	634	125	759	662	123	785

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	67.27	61.08	—6.19	—9.20
Average number of days in operation, . . .	298.43	287.41	—11.02	—3.69

## TOBACCO, SNUFF, AND CIGARS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	42	42	=	=
Number of private firms, . . . . .	37	37	=	=
Number of partners, . . . . .	56	54	-2	-3.57
Males, . . . . .	53	51	-2	-3.77
Females, . . . . .	1	3	+2	+200.00
Special, . . . . .	1	-	-1	-100.00
Estates, . . . . .	1	-	-1	-100.00
Number of corporations, . . . . .	5	5	=	=
Number of stockholders, . . . . .	43	41	-2	-4.65
Males, . . . . .	40	36	-4	-10.00
Females, . . . . .	3	4	+1	+33.33
Banks, trustees, etc., . . . . .	-	1	+1	-
Aggregates: partners and stockholders, .	99	95	-4	-4.04

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$1,039,294	\$969,233	-\$70,061	-6.74

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$1,541,321	\$1,652,061	+\$110,740	+7.18

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$3,205,552	\$3,204,512	-\$1,040	-0.03



## TOBACCO, SNUFF, AND CIGARS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	1,784	1,710	—74	—4.15
Smallest number, . . . . .	1,254	1,275	+21	+1.67
Greatest number, . . . . .	2,082	2,118	+36	+1.73
Excess of greatest over smallest number, .	828	843	+15	+1.81

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	958	452	1,410	1,201	544	1,745
February, . . . . .	1,009	471	1,480	1,222	535	1,757
March, . . . . .	1,033	496	1,529	1,233	537	1,770
April, . . . . .	1,086	513	1,599	1,270	560	1,830
May, . . . . .	1,153	562	1,715	1,332	581	1,913
June, . . . . .	1,204	553	1,757	1,378	606	1,984
July, . . . . .	1,275	599	1,874	1,217	529	1,746
August, . . . . .	1,290	609	1,899	1,168	506	1,674
September, . . . . .	1,264	587	1,851	1,121	464	1,585
October, . . . . .	1,255	581	1,836	1,116	468	1,584
November, . . . . .	1,189	562	1,751	1,059	430	1,489
December, . . . . .	1,173	525	1,698	995	432	1,427
During the entire year,* . .	34	13	47	13	1	14

\* 5 establishments in 1892; 4 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,026,942	\$1,067,974	+\$41,032	+4.00
Average yearly earnings, . . . . .	575.64	624.55	+48.91	+8.50

## TOBACCO, SNUFF, AND CIGARS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	51	167	218	45	184	229
\$5 but under \$6, . . . . .	33	112	145	13	127	140
\$6 but under \$7, . . . . .	29	156	185	20	155	175
\$7 but under \$8, . . . . .	28	86	114	16	81	97
\$8 but under \$9, . . . . .	26	24	50	32	27	59
\$9 but under \$10, . . . . .	53	20	73	49	18	67
\$10 but under \$12, . . . . .	132	52	184	117	17	134
\$12 but under \$15, . . . . .	282	30	312	289	47	336
\$15 but under \$20, . . . . .	486	10	496	529	15	544
\$20 and over, . . . . .	340	3	343	332	4	336
TOTALS, . . . . .	1,460	660	2,120	1,442	675	2,117

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	69.21	61.14	-8.07	-11.66
Average number of days in operation, . . .	297.41	290.41	-7.00	-2.35

## TOYS AND GAMES (CHILDREN'S). 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	8	8	=	=
Number of private firms, . . . . .	5	5	=	=
Number of partners, . . . . .	10	10	=	=
Males, . . . . .	8	8	=	=
Females, . . . . .	2	2	=	=
Number of corporations, . . . . .	3	3	=	=
Number of stockholders, . . . . .	21	18	-3	-14.29
Males, . . . . .	21	18	-3	-14.29
Aggregates: partners and stockholders, . .	31	28	-3	-9.68

## TOYS AND GAMES (CHILDREN'S) — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$344,000	\$330,000	—\$14,000	—4.07

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$237,243	\$217,847	—\$19,396	—8.18

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$632,682	\$586,730	—\$45,952	—7.26

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	524	495	—29	—5.53
Smallest number, . . . . .	346	301	—45	—13.01
Greatest number, . . . . .	683	641	—42	—6.15
Excess of greatest over smallest number, .	337	340	+3	+0.89

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	325	54	379	325	48	373
February, . . . . .	371	71	442	351	59	410
March, . . . . .	409	85	494	388	78	466
April, . . . . .	413	93	506	384	96	480
May, . . . . .	446	95	541	405	110	515
June, . . . . .	450	97	547	419	118	537
July, . . . . .	442	109	551	417	115	532

## TOYS AND GAMES (CHILDREN'S) — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	457	111	568	402	89	491
September, . . . . .	487	117	604	429	98	527
October, . . . . .	496	129	625	463	108	571
November, . . . . .	497	135	632	448	114	562
December, . . . . .	427	100	527	374	95	469

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$221,554	\$196,511	—\$25,043	—11.30
Average yearly earnings, . . . . .	422.81	396.99	—25.82	—6.11

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	75	51	126	72	28	100
\$5 but under \$6, . . . . .	47	25	72	38	28	66
\$6 but under \$7, . . . . .	49	33	82	50	35	85
\$7 but under \$8, . . . . .	77	17	94	73	12	85
\$8 but under \$9, . . . . .	42	9	51	43	6	49
\$9 but under \$10, . . . . .	80	5	85	72	7	79
\$10 but under \$12, . . . . .	62	2	64	48	4	52
\$12 but under \$15, . . . . .	53	1	54	55	3	58
\$15 but under \$20, . . . . .	32	—	32	26	—	26
\$20 and over, . . . . .	18	—	18	16	—	16
TOTALS, . . . . .	535	143	678	493	123	616

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	80.13	71.88	—8.25	—10.30
Average number of days in operation, . . .	297.46	282.94	—14.52	—4.88

## TRUNKS AND VALISES. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	7	7	=	=
Number of private firms, . . . . .	7	7	=	=
Number of partners, . . . . .	11	11	=	=
Males, . . . . .	11	11	=	=

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$85,900	\$81,200	-\$4,700	-5.47

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$158,204	\$126,836	-\$31,368	-19.83

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$295,119	\$240,018	-\$55,101	-18.67

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	114	99	-15	-13.16
Smallest number, . . . . .	73	55	-18	-24.66
Greatest number, . . . . .	135	121	-14	-10.37
Excess of greatest over smallest number, .	62	66	+4	+6.45

## TRUNKS AND VALISES — 1892, 1893 — Continued.

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	75	2	77	86	5	91
February, . . . . .	101	9	110	104	10	114
March, . . . . .	108	10	118	104	11	115
April, . . . . .	109	10	119	106	11	117
May, . . . . .	110	12	122	110	11	121
June, . . . . .	119	13	132	102	10	112
July, . . . . .	117	12	129	99	8	107
August, . . . . .	117	11	128	92	7	99
September, . . . . .	112	11	123	79	10	89
October, . . . . .	101	10	111	71	8	79
November, . . . . .	103	9	112	78	8	86
December, . . . . .	88	5	93	64	3	67
During the entire year,* . .	30	-	30	13	-	13

\* 4 establishments in 1892; 2 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$67,766	\$54,406	—\$13,360	—19.71
Average yearly earnings, . . . . .	594.44	549.56	—44.88	—7.55

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	6	4	10	9	3	12
\$5 but under \$6, . . . . .	3	5	8	4	4	8
\$6 but under \$7, . . . . .	5	4	9	5	4	9
\$7 but under \$8, . . . . .	2	-	2	14	-	14
\$8 but under \$9, . . . . .	4	-	4	5	-	5
\$9 but under \$10, . . . . .	7	-	7	7	-	7
\$10 but under \$12, . . . . .	13	-	13	12	-	12
\$12 but under \$15, . . . . .	35	-	35	25	-	25
\$15 but under \$20, . . . . .	43	-	43	28	-	28
\$20 and over, . . . . .	6	-	6	5	-	5
TOTALS, . . . . .	124	13	137	114	11	125



## TRUNKS AND VALISES — 1892, 1893 — Concluded.

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	84.29	75.29	—9.00	—10.68
Average number of days in operation, . .	306.00	279.56	—26.44	—8.64

## WHIPS, LASHES, AND STOCKS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (—), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	10	10	=	=
Number of private firms, . . . . .	7	7	=	=
Number of partners, . . . . .	14	14	=	=
Males, . . . . .	14	14	=	=
Number of corporations, . . . . .	3	3	=	=
Number of stockholders, . . . . .	140	204	+64	+45.71
Males, . . . . .	100	133	+33	+33.00
Females, . . . . .	33	54	+21	+63.64
Banks, trustees, etc., . . . . .	7	17	+10	+142.86
Aggregates: partners and stockholders, .	154	218	+64	+41.56

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$713,604	\$857,000	+\$143,396	+20.09

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$426,171	\$384,758	—\$41,413	—9.72

## WHIPS, LASHES, AND STOCKS — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$1,078,496	\$987,538	—\$90,958	—8.37

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	436	325	—111	—25.46
Smallest number, . . . . .	406	106	—300	—73.89
Greatest number, . . . . .	461	466	+5	+1.08
Excess of greatest over smallest number, .	55	360	+305	+554.55

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	287	140	427	272	144	416
February, . . . . .	289	144	433	281	154	435
March, . . . . .	304	142	446	277	152	429
April, . . . . .	302	140	442	295	166	461
May, . . . . .	292	144	436	289	158	447
June, . . . . .	295	142	437	243	130	373
July, . . . . .	290	140	430	238	124	362
August, . . . . .	288	146	434	193	95	288
September, . . . . .	297	147	444	89	30	119
October, . . . . .	297	145	442	130	66	196
November, . . . . .	295	144	439	139	71	210
December, . . . . .	290	141	431	131	59	190
During the entire year,* . .	32	17	49	4	2	6

\* 3 establishments in 1892; 1 establishment in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$201,042	\$154,904	—\$46,138	—22.95
Average yearly earnings, . . . . .	461.11	476.63	+15.52	+3.37

## WHIPS, LASHES, AND STOCKS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	39	24	63	31	30	61
\$5 but under \$6, . . . .	17	24	41	17	45	62
\$6 but under \$7, . . . .	16	49	65	17	51	68
\$7 but under \$8, . . . .	16	25	41	24	22	46
\$8 but under \$9, . . . .	18	8	26	23	12	40
\$9 but under \$10, . . . .	40	9	49	36	11	47
\$10 but under \$12, . . . .	38	5	43	52	1	53
\$12 but under \$15, . . . .	71	-	71	51	-	51
\$15 but under \$20, . . . .	43	-	43	24	-	24
\$20 and over, . . . . .	13	-	13	14	-	14
TOTALS, . . . . .	311	144	455	294	172	466

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	67.90	63.80	-4.10	-6.04
Average number of days in operation, . . .	300.58	245.79	-54.79	-18.23

## WOODEN GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	168	168	=	=
Number of private firms, . . . . .	154	151	-3	-1.95
Number of partners, . . . . .	213	214	+1	+0.47
Males, . . . . .	207	204	-3	-1.45
Females, . . . . .	6	9	+3	+50.00
Estates, . . . . .	-	1	+1	-
Number of corporations, . . . . .	14	17	+3	+21.43
Number of stockholders, . . . . .	190	199	+9	+4.74
Males, . . . . .	155	160	+5	+3.23
Females, . . . . .	24	24	=	=
Banks, trustees, etc., . . . . .	11	15	+4	+36.36
Aggregates: partners and stockholders, .	403	413	+10	+2.48

## WOODEN GOODS — 1892, 1893 — Continued.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$3,217,225	\$3,471,774	+\$254,549	+7.91

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$2,826,120	\$2,649,297	—\$176,823	—6.26

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$5,643,281	\$5,442,780	—\$200,501	—3.55

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	3,199	3,052	—147	—4.60
Smallest number, . . . . .	2,521	2,326	—195	—7.74
Greatest number, . . . . .	3,926	3,838	—88	—2.24
Excess of greatest over smallest number, .	1,405	1,512	+107	+7.62

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	2,965	49	3,014	3,040	66	3,106
February, . . . . .	2,917	55	2,972	3,073	76	3,149
March, . . . . .	2,890	59	2,949	3,089	82	3,171
April, . . . . .	2,863	63	2,926	3,105	89	3,194
May, . . . . .	2,885	67	2,952	3,254	85	3,339
June, . . . . .	3,035	64	3,099	3,243	85	3,328
July, . . . . .	3,160	77	3,237	3,084	91	3,175

## WOODEN GOODS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	3,259	77	3,336	2,355	67	2,922
September, . . . . .	3,324	71	3,395	2,817	70	2,887
October, . . . . .	3,447	82	3,529	2,723	76	2,799
November, . . . . .	3,403	90	3,493	2,760	84	2,844
December, . . . . .	3,313	81	3,394	2,654	79	2,733
During the entire year,* . .	387	-	387	164	-	164

\* 42 establishments in 1892; 24 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$1,712,341	\$1,636,757	-\$75,584	-4.41
Average yearly earnings, . . . . .	535.27	536.29	+1.02	+0.19

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	126	41	167	106	35	141
\$5 but under \$6, . . . . .	62	16	78	80	19	99
\$6 but under \$7, . . . . .	118	13	131	137	17	154
\$7 but under \$8, . . . . .	232	3	235	246	5	251
\$8 but under \$9, . . . . .	261	4	265	260	5	265
\$9 but under \$10, . . . . .	645	2	647	682	6	688
\$10 but under \$12, . . . . .	495	5	500	479	5	484
\$12 but under \$15, . . . . .	751	2	753	665	2	667
\$15 but under \$20, . . . . .	925	5	930	791	5	796
\$20 and over, . . . . .	173	3	176	144	3	147
TOTALS, . . . . .	3,788	94	3,882	3,590	102	3,692

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	64.80	57.86	-6.94	-10.71
Average number of days in operation, . . .	295.12	281.04	-14.08	-4.77



## WOOLLEN GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	125	125	=	=
Number of private firms, . . . . .	88	87	-1	-1.14
Number of partners, . . . . .	147	143	-4	-2.72
Males, . . . . .	139	135	-4	-2.88
Females, . . . . .	5	4	-1	-20.00
Special, . . . . .	1	1	=	=
Estates, . . . . .	2	3	+1	+50.00
Number of corporations, . . . . .	37	38	+1	+2.70
Number of stockholders, . . . . .	1,063	1,091	+28	+2.63
Males, . . . . .	564	581	+17	+3.01
Females, . . . . .	337	351	+14	+4.15
Banks, trustees, etc., . . . . .	162	159	-3	-1.85
Aggregates: partners and stockholders, .	1,210	1,234	+24	+1.98

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$27,220,349	\$25,554,880	-\$1,665,469	-6.12

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$20,360,682	\$16,674,542	-\$3,686,140	-18.10
Clips, . . . . .	340,575	205,049	-135,526	-39.79
Cotton, raw . . . . .	279,536	253,387	-26,149	-9.35
Flocks, . . . . .	16,832	16,559	-273	-1.91
Noils, . . . . .	173,925	124,578	-49,347	-28.37
Rags, woollen . . . . .	702,727	599,097	-103,630	-14.75
Shoddy, . . . . .	728,467	507,490	-220,977	-30.33
Warp, cotton . . . . .	317,866	259,086	-58,780	-18.49
Waste, cotton . . . . .	33,477	31,334	-2,143	-6.40
Waste, woollen . . . . .	250,592	223,546	-27,046	-10.79
Wool, scoured . . . . .	2,759,471	2,179,241	-580,230	-21.03
Wool, unscoured . . . . .	2,052,128	1,585,490	-466,638	-22.74
Wool (not specified), . . . . .	6,675,399	5,411,099	-1,264,300	-18.94
Yarn, cotton . . . . .	60,330	45,904	-14,426	-23.91
Yarn, worsted . . . . .	299,135	420,054	+120,919	+40.42
Not classified in detail, . . . . .	5,670,172	4,812,628	-857,544	-15.12



## WOOLLEN GOODS — 1892, 1893 — Continued.

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percentages
Clips, . . . . .	100 pounds	32,908	20,302	—12,606	—38.31
Cotton, raw . . . . .	100 pounds	23,891	22,429	—1,462	—6.12
Flocks, . . . . .	100 pounds	3,206	3,084	—122	—3.81
Noils, . . . . .	100 pounds	5,134	3,601	—1,533	—29.86
Rags, woollen . . . . .	100 pounds	103,401	93,085	—10,316	—9.98
Shoddy, . . . . .	100 pounds	61,622	48,042	—13,580	—22.04
Warp, cotton . . . . .	100 yards	122,430	100,512	—21,918	—17.90
Warp, cotton . . . . .	100 pounds	3,878	2,680	—1,198	—30.89
Waste, cotton . . . . .	100 pounds	5,165	5,370	+205	+3.97
Waste, woollen . . . . .	100 pounds	18,492	18,319	—173	—0.94
Wool, scoured . . . . .	100 pounds	54,019	48,450	—5,569	—10.31
Wool, unsoured . . . . .	100 pounds	82,340	67,240	—15,100	—18.34
Wool (not specified), . . . . .	100 pounds	237,900	206,339	—31,561	—13.27
Yarn, cotton . . . . .	100 pounds	2,278	1,987	—291	—12.77
Yarn, worsted . . . . .	100 pounds	2,620	4,229	+1,609	+61.41

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Clips, . . . . .	100 pounds	\$10.35	\$10.10	—\$0.25	—2.42
Cotton, raw . . . . .	100 pounds	11.70	11.30	—0.40	—3.42
Flocks, . . . . .	100 pounds	5.27	5.37	+0.10	+1.90
Noils, . . . . .	100 pounds	33.88	34.60	+0.72	+2.13
Rags, woollen . . . . .	100 pounds	6.80	6.44	—0.36	—5.29
Shoddy, . . . . .	100 pounds	11.82	10.56	—1.26	—10.66
Warp, cotton . . . . .	100 yards	1.97	2.08	+0.11	+5.58
Warp, cotton . . . . .	100 pounds	19.65	18.71	—0.94	—4.78
Waste, cotton . . . . .	100 pounds	6.48	5.84	—0.64	—9.88
Waste, woollen . . . . .	100 pounds	13.55	12.20	—1.35	—9.96
Wool, scoured . . . . .	100 pounds	51.08	44.98	—6.10	—11.94
Wool, unsoured . . . . .	100 pounds	24.92	23.58	—1.34	—5.38
Wool (not specified), . . . . .	100 pounds	28.06	26.22	—1.84	—6.56
Yarn, cotton . . . . .	100 pounds	26.48	23.10	—3.38	—12.76
Yarn, worsted . . . . .	100 pounds	114.17	99.33	—14.84	—13.00

## WOOLLEN GOODS — 1892, 1893 — Continued.

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, .	\$34,074,848	\$28,061,654	—\$6,013,194	—17.65
Cassimeres, . . . . .	5,202,099	4,366,089	—836,010	—16.07
Cheviots, . . . . .	241,870	173,185	—68,685	—28.40
Cloakings, . . . . .	1,576,523	1,589,054	+12,531	+0.79
Cloth, woollen . . . . .	1,073,516	854,582	—218,934	—20.39
Dress goods, flannel . . . . .	1,208,009	930,290	—277,719	—22.99
Dress goods, woollen . . . . .	2,309,135	1,733,038	—576,097	—24.95
Dress goods, worsted . . . . .	110,000	157,300	+47,300	+43.00
Flannel, . . . . .	2,282,829	1,961,199	—321,630	—14.09
Kerseys, . . . . .	226,952	203,331	—23,621	—10.41
Meltons, . . . . .	360,115	269,793	—90,322	—25.08
Overcoating, . . . . .	478,931	466,924	—12,007	—2.51
Satinet, . . . . .	3,638,396	2,438,933	—1,199,463	—32.97
Shoddy, . . . . .	550,785	340,558	—210,227	—38.17
Suitings, men's . . . . .	1,005,547	808,259	—197,288	—19.62
Yarn, woollen . . . . .	147,316	120,294	—27,022	—18.34
Not classified in detail, . . . . .	13,662,825	11,648,825	—2,014,000	—14.74

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percent- ages
Cassimeres, . . . . .	100 yards	44,449	42,384	—2,065	—4.65
Cheviots, . . . . .	100 yards	1,867	1,463	—404	—21.64
Cloakings, . . . . .	yards	1,251,943	1,385,679	+133,736	+10.68
Cloth, woollen . . . . .	yards	706,674	515,525	—191,149	—27.05
Dress goods, flannel . . . . .	100 pounds	10,075	8,217	—1,858	—18.44
Dress goods, woollen . . . . .	100 yards	46,852	41,206	—5,646	—12.05
Dress goods, worsted . . . . .	100 yards	1,500	2,420	+920	+61.33
Flannel, . . . . .	100 yards	97,320	90,164	—7,156	—7.35
Kerseys, . . . . .	yards	159,597	142,577	—17,020	—10.66
Meltons, . . . . .	yards	278,077	217,862	—60,215	—21.65
Overcoating, . . . . .	yards	245,000	233,910	—11,090	—4.53
Satinet, . . . . .	100 yards	172,333	128,653	—43,680	—25.35
Shoddy, . . . . .	100 pounds	31,589	21,705	—9,884	—31.29
Suitings, men's . . . . .	yards	747,204	638,522	—108,682	—14.55
Yarn, woollen . . . . .	100 pounds	3,351	3,452	+71	+2.10

## WOOLLEN GOODS — 1892, 1893 — Continued.

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Cassimeres, . . . . .	100 yards	\$117.04	\$103.01	—\$14.03	—11.99
Cheviots, . . . . .	100 yards	129.55	118.38	—11.17	—8.62
Cloakings, . . . . .	yards	1.26	1.15	—0.11	—8.73
Cloth, woollen . . . . .	yards	1.52	1.66	+0.14	+9.21
Dress goods, flannel . . . .	100 pounds	119.90	113.22	—6.68	—5.57
Dress goods, woollen . . . .	100 yards	49.29	42.06	—7.23	—14.67
Dress goods, worsted . . . .	100 yards	73.33	65.00	—8.33	—11.36
Flannel, . . . . .	100 yards	23.46	21.75	—1.71	—7.29
Kerseys, . . . . .	yards	1.42	1.43	+0.01	+0.70
Meltons, . . . . .	yards	1.30	1.24	—0.06	—4.62
Overcoating, . . . . .	yards	1.95	2.00	+0.05	+2.56
Satinet, . . . . .	100 yards	21.11	18.96	—2.15	—10.13
Shoddy, . . . . .	100 pounds	17.44	15.69	—1.75	—10.03
Suitings, men's . . . . .	yards	1.35	1.27	—0.08	—5.93
Yarn, woollen . . . . .	100 pounds	43.57	34.85	—8.72	—20.01

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percentages
Average number, . . . . .	17,100	15,857	—1,243	—7.27
Smallest number, . . . . .	15,204	11,240	—3,964	—26.07
Greatest number, . . . . .	18,313	18,581	+268	+1.46
Excess of greatest over smallest number, .	3,109	7,341	+4,232	+136.12

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	10,617	6,357	16,974	10,938	6,329	17,267
February, . . . . .	10,735	6,364	17,099	11,206	6,569	17,775
March, . . . . .	10,883	6,448	17,331	11,286	6,612	17,898
April, . . . . .	10,957	6,447	17,404	11,269	6,598	17,867
May, . . . . .	10,952	6,417	17,369	11,267	6,566	17,833
June, . . . . .	10,880	6,410	17,290	10,955	6,325	17,280
July, . . . . .	10,539	5,820	16,359	10,033	5,830	15,863

## WOOLLEN GOODS — 1892, 1893 — Concluded.

## PERSONS EMPLOYED: BY MONTHS — Concluded.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
August, . . . . .	10,676	5,821	16,497	8,810	5,109	13,919
September, . . . . .	10,930	6,459	17,389	8,052	4,321	12,373
October, . . . . .	10,990	6,519	17,509	8,705	4,929	13,634
November, . . . . .	10,981	6,542	17,523	8,914	4,661	13,575
December, . . . . .	10,754	6,471	17,225	9,280	5,406	14,686
During the entire year,* . . . .	1,154	790	1,944	634	348	982

\* 23 establishments in 1892; 10 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$6,661,085	\$5,883,015	—\$778,070	—11.68
Average yearly earnings, . . . . .	389.54	371.00	—18.54	—4.76

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	1,022	1,706	2,728	1,037	1,740	2,777
\$5 but under \$6, . . . . .	703	873	1,576	768	914	1,682
\$6 but under \$7, . . . . .	1,495	1,253	2,748	1,455	1,152	2,607
\$7 but under \$8, . . . . .	2,194	1,490	3,684	2,112	1,290	3,402
\$8 but under \$9, . . . . .	1,287	642	1,929	1,563	843	2,406
\$9 but under \$10, . . . . .	1,571	454	2,025	1,545	405	1,950
\$10 but under \$12, . . . . .	1,497	335	1,832	1,447	304	1,751
\$12 but under \$15, . . . . .	949	66	1,015	910	63	973
\$15 but under \$20, . . . . .	469	—	469	453	1	454
\$20 and over, . . . . .	218	—	218	205	—	205
TOTALS, . . . . .	11,405	6,819	18,224	11,495	6,712	18,207

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . . .	87.46	74.03	—13.43	—15.36
Average number of days in operation, . . . .	299.29	262.37	—36.92	—12.34

## WORSTED GOODS. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . .	20	20	=	=
Number of private firms, . . . . .	10	9	-1	-10.00
Number of partners, . . . . .	17	21	+4	+23.53
Males, . . . . .	17	18	+1	+5.88
Females, . . . . .	-	1	+1	-
Special, . . . . .	-	2	+2	-
Number of corporations, . . . . .	10	11	+1	+10.00
Number of stockholders, . . . . .	465	474	+9	+1.94
Males, . . . . .	298	303	+5	+1.68
Females, . . . . .	122	125	+3	+2.46
Banks, trustees, etc., . . . . .	45	46	+1	+2.22
Aggregates : partners and stockholders, .	482	495	+13	+2.70

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$12,132,889	\$11,038,952	-\$1,093,937	-9.02

## STOCK USED. AGGREGATE VALUES.

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$12,239,108	\$9,948,697	-\$2,290,411	-18.71
Camel's-hair, . . . . .	280,610	232,492	-48,118	-17.15
Warp, cotton . . . . .	304,298	258,174	-46,224	-15.19
Wool (not specified), . . . . .	6,610,679	5,251,612	-1,359,067	-20.56
Yarn, worsted . . . . .	1,169,079	457,977	-711,102	-60.83
Not classified in detail, . . . . .	3,874,342	3,748,442	-125,900	-3.25

## STOCK USED. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measure- ment	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Quantities	Percent- ages
Camel's-hair, . . . . .	100 pounds	22,077	19,066	-3,011	-13.64
Warp, cotton . . . . .	100 pounds	9,334	8,218	-1,116	-11.96
Wool (not specified), . . . . .	100 pounds	289,596	213,036	-76,560	-26.44
Yarn, worsted . . . . .	100 pounds	11,659	5,181	-6,478	-55.56



## WORSTED GOODS — 1892, 1893 — Continued.

## STOCK USED. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Camel's-hair, . . . .	100 pounds	\$12.71	\$12.19	—\$0.52	—4.09
Warp, cotton . . . .	100 pounds	32.61	31.42	—1.19	—3.65
Wool (not specified), . . . .	100 pounds	22.83	24.65	+1.82	+7.97
Yarn, worsted . . . .	100 pounds	100.27	88.40	—11.87	—11.84

## GOODS MADE. AGGREGATE VALUES.

CLASSIFICATION.		1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
				Amounts	Percentages
Total value of goods made and work done, .		\$17,328,062	\$15,528,227	—\$1,799,835	—10.39
Dress goods (not specified), . . . .		3,659,045	2,898,497	—760,548	—20.79
Noils, . . . . .		248,466	177,909	—70,557	—28.40
Suitings, . . . . .		2,474,459	1,678,328	—796,131	—32.17
Yarn, carpet . . . . .		1,185,104	1,152,902	—32,202	—2.72
Yarn, worsted . . . . .		2,957,227	2,733,444	—223,783	—7.57
Not classified in detail, . . . . .		6,803,761	6,887,147	+83,386	+1.23

## GOODS MADE. AGGREGATE QUANTITIES.

CLASSIFICATION.	Basis of Measurement	AGGREGATE QUANTITIES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Quantities	Percentages
Dress goods (not specified), .	100 yards	148,419	118,610	—29,809	—20.08
Noils, . . . . .	100 pounds	13,043	9,120	—3,923	—30.08
Suitings, . . . . .	yards	1,925,863	1,484,737	—441,126	—22.91
Yarn, carpet . . . . .	100 pounds	29,336	27,297	—2,039	—6.95
Yarn, worsted . . . . .	100 pounds	47,681	50,009	+2,328	+4.88

## GOODS MADE. AVERAGE VALUES.

CLASSIFICATION.	Basis of Measurement	AVERAGE VALUES PER BASIS		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Dress goods (not specified), .	100 yards	\$24.65	\$24.44	—\$0.21	—0.85
Noils, . . . . .	100 pounds	19.05	19.51	+0.46	+2.41
Suitings, . . . . .	yards	1.28	1.13	—0.15	—11.72
Yarn, carpet . . . . .	100 pounds	40.40	42.24	+1.84	+4.55
Yarn, worsted . . . . .	100 pounds	62.02	54.66	—7.36	—11.87



## WORSTED GOODS — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Number	Percent- ages
Average number, . . . . .	8,996	9,025	+29	+0.32
Smallest number, . . . . .	8,117	6,791	—1,326	—16.34
Greatest number, . . . . .	9,813	10,270	+457	+4.66
Excess of greatest over smallest number, .	1,696	3,479	+1,783	+105.13

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	4,270	4,300	8,570	5,043	4,622	9,665
February, . . . . .	4,239	4,339	8,578	5,080	4,647	9,727
March, . . . . .	4,336	4,386	8,722	5,194	4,705	9,899
April, . . . . .	4,376	4,339	8,715	5,249	4,683	9,932
May, . . . . .	4,415	4,329	8,744	5,266	4,696	9,962
June, . . . . .	4,441	4,450	8,891	5,146	4,661	9,807
July, . . . . .	4,537	4,473	9,010	5,039	4,531	9,570
August, . . . . .	4,585	4,663	9,248	3,876	3,726	7,602
September, . . . . .	4,604	4,657	9,261	3,701	3,447	7,148
October, . . . . .	4,629	4,697	9,326	4,279	3,908	8,187
November, . . . . .	4,696	4,719	9,415	4,241	3,852	8,093
December, . . . . .	4,711	4,740	9,451	4,590	4,120	8,710

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$3,321,837	\$2,202,796	—\$1,119,041	—33.69
Average yearly earnings, . . . . .	369.26	244.08	—125.18	—33.90

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	418	1,008	1,426	544	1,174	1,718
\$5 but under \$6, . . . . .	480	1,247	1,727	361	1,217	1,578
\$6 but under \$7, . . . . .	515	1,242	1,757	542	1,483	2,030
\$7 but under \$8, . . . . .	952	601	1,553	1,099	545	1,644
\$8 but under \$9, . . . . .	418	340	758	535	285	820
\$9 but under \$10, . . . . .	531	159	690	577	145	722

## WORSTED GOODS — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES — Concluded.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
\$10 but under \$12, . . .	581	187	768	666	159	825
\$12 but under \$15, . . .	730	17	747	711	4	715
\$15 but under \$20, . . .	186	—	186	197	8	205
\$20 and over, . . .	81	—	81	73	—	73
TOTALS, . . .	4,892	4,801	9,693	5,305	5,025	10,330

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . .	90.15	77.40	—12.75	—14.14
Average number of days in operation, . .	303.61	277.96	—25.65	—8.45

## ALL INDUSTRIES. 1892, 1893.

## ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.	1892	1893	INCREASE (+), DE- CREASE (-), OR NO CHANGE (=), IN 1893	
			Number	Percent- ages
Number of establishments reporting, . . .	4,397	4,397	=	=
Number of private firms, . . . . .	3,534	3,478	-56	-1.58
Number of partners, . . . . .	5,671	5,519	-152	-2.68
Males, . . . . .	5,477	5,292	-185	-3.38
Females, . . . . .	123	129	+6	+4.88
Special, . . . . .	59	59	=	=
Estates, . . . . .	12	39	+27	+225.00
Number of corporations, . . . . .	820	872	+52	+6.34
Number of stockholders, . . . . .	37,064	38,284	+1,220	+3.29
Males, . . . . .	21,848	21,919	+71	+0.32
Females, . . . . .	11,653	12,301	+648	+5.56
Banks, trustees, etc., . . . . .	3,551	4,051	+500	+14.08
Syndicates, . . . . .	8	9	+1	+12.50
Railroads, . . . . .	4	4	=	=
Aggregates: partners and stockholders, . .	42,735	43,803	+1,068	+2.50

\* See head-notes to presentations on pages 4, 5, 8, and 9.

## CAPITAL INVESTED.

CAPITAL INVESTED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Amount of capital invested, . . . . .	\$439,015,263	\$444,480,277	+\$5,465,014	+1.24

## STOCK USED. AGGREGATE VALUES.

STOCK USED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of stock used, . . . . .	\$376,554,375	\$348,991,905	-\$27,562,470	-7.32

## GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total value of goods made and work done, . .	\$639,137,402	\$587,343,550	-\$51,793,852	-8.10

## ALL INDUSTRIES — 1892, 1893 — Continued.

## PERSONS EMPLOYED.

PERSONS EMPLOYED.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Number	Percent- ages
Average number, . . . . .	306,203	293,169	-13,034	-4.26
Smallest number, . . . . .	267,168	222,370	-44,798	-16.77
Greatest number, . . . . .	344,004	345,388	+1,384	+0.40
Excess of greatest over smallest number, .	76,836	123,018	+46,182	+60.10

## PERSONS EMPLOYED: BY MONTHS.

MONTHS.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
January, . . . . .	196,044	101,151	297,195	206,447	105,023	311,470
February, . . . . .	198,735	103,044	301,779	207,305	106,189	313,494
March, . . . . .	200,595	104,000	304,595	210,370	106,549	316,919
April, . . . . .	203,123	104,758	307,881	211,387	108,431	319,818
May, . . . . .	203,496	104,125	307,621	210,971	107,667	318,638
June, . . . . .	202,911	102,700	305,611	206,218	104,267	310,485
July, . . . . .	201,708	100,450	302,158	195,172	98,031	293,203
August, . . . . .	203,672	99,975	303,647	178,040	85,834	263,874
September, . . . . .	205,566	102,521	308,087	167,940	80,464	248,404
October, . . . . .	206,161	104,652	310,813	178,281	92,691	270,972
November, . . . . .	206,342	104,695	311,037	177,968	93,441	271,409
December, . . . . .	205,503	104,800	310,303	178,095	94,466	272,561
During the entire year,* . .	28,256	15,812	44,068	15,746	8,243	23,989

\* 1,087 establishments in 1892; 702 establishments in 1893.

## WAGES AND EARNINGS.

WAGES AND EARNINGS.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Total amount paid in wages, . . . . .	\$137,972,501	\$127,286,397	-\$10,686,104	-7.75
Average yearly earnings, . . . . .	450.59	434.17	-16.42	-3.64

## ALL INDUSTRIES — 1892, 1893 — Concluded.

## CLASSIFIED WEEKLY WAGES.

CLASSIFICATION OF WEEKLY WAGE.	1892			1893		
	Males	Females	Totals	Males	Females	Totals
Under \$5, . . . . .	16,929	28,219	45,148	16,840	27,791	44,631
\$5 but under \$6, . . . . .	10,506	20,266	30,772	10,794	19,910	30,704
\$6 but under \$7, . . . . .	17,200	20,972	38,172	16,918	21,578	38,496
\$7 but under \$8, . . . . .	19,594	15,606	35,200	19,906	15,242	35,148
\$8 but under \$9, . . . . .	17,704	10,061	27,765	19,118	11,058	30,176
\$9 but under \$10, . . . . .	28,942	7,811	36,253	29,172	7,535	36,707
\$10 but under \$12, . . . . .	33,290	5,844	39,134	33,417	5,913	39,335
\$12 but under \$15, . . . . .	39,573	2,649	42,222	38,620	2,712	41,332
\$15 but under \$20, . . . . .	30,770	985	31,755	30,337	927	31,264
\$20 and over, . . . . .	10,338	121	10,459	10,141	103	10,244
TOTALS, . . . . .	224,846	112,034	336,880	225,263	112,774	338,037

## PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.	1892	1893	INCREASE (+), OR DECREASE (—), IN 1893	
			Proportion and Days	Percent- ages
Average proportion of business done, . . .	69.38	59.18	—10.20	—14.70
Average number of days in operation, . . .	297.83	277.36	—20.47	—6.87





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# ANALYSIS.

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## ANALYSIS.

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The statistical tables contained in this volume are based upon returns from 4,397 identical establishments, in 75 classified industries, which made reports for each of the years 1892 and 1893. The comparisons may be relied upon as accurately reflecting industrial conditions prevailing in the Commonwealth during the two years.

It is necessary to repeat that this report *does not* present numerical aggregates of all goods made and work done in the manufacturing and mechanical establishments of Massachusetts in the two years considered, but it furnishes a basis for comparing one year's condition with another year's condition, and, in connection with other similar reports, it will be found to supply results comparable with the results obtained in the Decennial Census.

Wherever "All Industries" are referred to in this volume, it is to be understood that the 75 classified industries mentioned in the first table (pages 4 to 7) are meant; and wherever numerical aggregates are presented for All Industries or for any single industry, whether of capital invested, stock used, goods made, persons employed, or wages paid, only such aggregates are intended as are derived from the 4,397 establishments each of which made return for each of the years 1892 and 1893, and for which it is possible to make comparisons, unless some other meaning is distinctly stated in the text.

The plan adopted in the report for 1892 has been followed in the present volume; that is, pages 1 to 60 includes general statistics by industries, arranged under the following subject or division heads: Private Firms and Corporations and Partners and Stockholders, Capital Invested, Stock Used, Goods Made, Persons Employed, Wages Paid, and Proportion of Business Done. The second section, pages 61 to 274, is devoted to industry presentations in detail, all of the facts relating to each industry being grouped under its respective title.

This arrangement promotes the convenience of those who consult the report and enhances its usefulness, as the reader who is interested in any particular industry readily finds all the details relating to it in the appropriate place. This analysis deals principally with the tables contained in the first part, pages 1 to 60, with such reference to the detailed industry presentations as is required to effectually deal with the statistics given.

## PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

### PRIVATE FIRMS AND CORPORATIONS.

The tables relating to private firms and corporations and partners and stockholders will be found upon pages 3 to 12. The number of establishments, each of which made return for the years 1892 and 1893, was 4,397. In 1892 these establishments were managed by 3,534 private firms and 820 corporations. In 1893, the number of private firms was reduced to 3,478, a decrease of 1.58 per cent and the number of corporations advanced to 872, an increase of 6.34 per cent. It is quite evident, from these figures, that the tendency to assume the corporate form of management still continues.

The following table indicates the effect, in the aggregate, of the change from private firms to corporations in 1893 as compared with 1892:

PRIVATE FIRMS AND CORPORATIONS.	NUMBER		PERCENTAGES	
	1892	1893	1892	1893
Private firms, . . . . .	3,534	3,478	81.17	79.95
Corporations, . . . . .	820	872	18.83	20.05
TOTALS, . . . . .	4,354	4,350	100.00	100.00

The numerical effect of the changes indicated in this table has been noted. When expressed in percentages it is seen that in 1892 the corporations constituted 18.83 per cent of the entire number of establishments; in 1893 the percentage rose to 20.05. Of course, the rate of increase indicated by these figures is small, but, nevertheless, it is in line with the present

tendency toward a corporate form of management which has been noted for a number of years.

In the head-notes to the tables on pages 4, 5, 8, and 9, it is stated that there are duplications to be found in the columns devoted to the number of private firms and corporations, and it is explained that these duplications are caused by the fact that the same firm or corporation is often engaged in conducting two or more establishments in different towns and, it may be, in different industries. The plan adopted in the statistical presentations is to consider each establishment, whether managed in connection with another or not, as a unit, and to credit to each establishment its own number of partners or stockholders, and to each industry its own number of firms or corporations carrying on the establishments, but, when considering the total for All Industries, to count them once only. The word "establishment" as used in this report means the factory, mill, or shop from which a report was received, and not the firm or corporation owning or controlling said factory, mill, or shop. There are no duplications so far as the establishments are concerned.

In the following table is shown the number of duplications in private firms and corporations, by industries, for the years 1892 and 1893:

INDUSTRIES.	PRIVATE FIRMS		CORPORATIONS	
	1892	1893	1892	1893
Boots and shoes, . . . . .	2	2	2	2
Boxes (paper and wooden), . . . . .	2	2	-	-
Cordage and twine, . . . . .	-	-	1	1
Cotton goods, . . . . .	-	-	3	3
Cotton, woollen, and other textiles, . . . . .	-	-	1	1
Food preparations, . . . . .	-	-	2	3
Hosiery and knit goods, . . . . .	1	1	2	2
Leather, . . . . .	1	1	-	1
Liquors: malt, distilled, and fermented, . . . . .	-	-	2	2
Machines and machinery, . . . . .	-	-	2	2
Metals and metallic goods, . . . . .	-	-	-	1
Paper and paper goods, . . . . .	1	1	4	4
Printing, publishing, and bookbinding, . . . . .	1	1	-	-
Print works, dye works, and bleacheries, . . . . .	-	-	3	3
Railroad construction and equipment, . . . . .	-	-	6	6
Rubber and elastic goods, . . . . .	1	1	-	-
Woollen goods, . . . . .	3	3	2	3
Worsted goods, . . . . .	-	-	1	1
TOTALS, . . . . .	12	12	31	35

This table indicates that in the presentations relating to private firms and corporations 43 duplications occurred in 1892 and 47 in 1893; these duplications refer to the same concerns in each year. The excess in 1893 of four duplications over the number shown in 1892 indicates a change in management and the consolidation of separate interests into the trust or syndicate form of control. As pointed out in previous reports, in connection with this subject, it should be understood that only the number of partners and stockholders are affected by these duplications. The returns relating to capital invested, stock used, goods made, persons employed, and wages paid are made separately for each establishment, and in the tabular presentations are credited to the industry to which they properly belong.

#### PARTNERS AND STOCKHOLDERS.

The same partners and stockholders are sometimes connected with more than one establishment, and therefore, under the plan of tabulation adopted by this department, noted on the preceding page, the whole number of partners and stockholders is credited to each industry, individuals being counted but once in making up the total for All Industries.

The duplications in partners and stockholders are shown in the following table:

INDUSTRIES.	PARTNERS		STOCKHOLDERS	
	1892	1893	1892	1893
Boots and shoes, . . . . .	4	4	10	10
Boxes (paper and wooden), . . . . .	4	4	-	-
Cordage and twine, . . . . .	-	-	6	6
Cotton goods, . . . . .	-	-	97	99
Cotton, woollen, and other textiles, . . . . .	-	-	452	463
Food preparations, . . . . .	-	-	*2	*3
Hosiery and knit goods, . . . . .	5	3	611	621
Leather, . . . . .	2	2	-	69
Liquors: malt, distilled, and fermented, . . . . .	-	-	*2	*2
Machines and machinery, . . . . .	-	-	651	713
Metals and metallic goods, . . . . .	-	-	-	*1
Paper and paper goods, . . . . .	5	4	44	64
Printing, publishing, and bookbinding, . . . . .	1	1	-	-
Print works, dye works, and bleacheries, . . . . .	-	-	661	675
Railroad construction and equipment, . . . . .	-	-	†6	†6
Rubber and elastic goods, . . . . .	2	2	-	-
Woollen goods, . . . . .	8	8	216	224
Worsted goods, . . . . .	-	-	187	197
TOTALS, . . . . .	31	28	2,945	3,153

\* Syndicates.

† Railroads.



Considering the total line in the above table, it is seen that in 1892 there were 31 duplications in the number of partners and 2,945 in the number of stockholders; in 1893 there were 28 duplications in the number of partners and 3,153 in the number of stockholders.

The following table indicates the number of general partners (male and female), the number of special partners, and the number of estates, engaged in managing the private firms represented in 1892 and 1893 :

PARTNERS.	NUMBER		PERCENTAGES	
	1892	1893	1892	1893
General partners, . . . . .	5,600	5,421	98.75	98.22
Special partners, . . . . .	59	59	1.04	1.07
Estates, . . . . .	12	39	0.21	0.71
TOTALS, . . . . .	5,671	5,519	100.00	100.00

From the table it appears that the number of male and female general partners constituted 98.75 per cent of the whole number of partners in 1892 and 98.22 per cent in 1893; the representation of partners actively engaged in the management of the different concerns being nearly the same in each year when expressed in percentages, although the whole number declined from 5,671 in 1892 to 5,519 in 1893.

A classification of partners by sex, together with the number of special partners and estates, is shown for each year in the following table :

PARTNERS.	NUMBER		PERCENTAGES	
	1892	1893	1892	1893
Males, . . . . .	5,477	5,292	96.58	95.89
Females, . . . . .	123	129	2.17	2.34
Special and estates, . . . . .	71	98	1.25	1.77
TOTALS, . . . . .	5,671	5,519	100.00	100.00

The number of males declined from 5,477 in 1892 to 5,292 in 1893, a decrease of 3.38 per cent. The number of females rose from 123 to 129, an increase of 4.88 per cent, and the

number of special partners and estates increased from 71 to 98, an increase of 38.03 per cent.

A classification of stockholders by sex is shown in the following table :

STOCKHOLDERS.	NUMBER		PERCENTAGES	
	1892	1893	1892	1893
Males, . . . . .	21,848	21,919	58.95	57.25
Females, . . . . .	11,653	12,301	31.44	32.13
Banks, trustees, etc., . . . . .	3,563	4,064	9.61	10.62
TOTALS, . . . . .	37,064	38,284	100.00	100.00

The number of male stockholders increased from 21,848 in 1892 to 21,919 in 1893, a gain of 0.32 per cent; the number of females increased from 11,653 to 12,301, a gain of 5.56 per cent.

The relative proportions of the sexes controlling the aggregate number of establishments are shown in the following table in which partners and stockholders are consolidated :

PARTNERS AND STOCKHOLDERS.	NUMBER		PERCENTAGES	
	1892	1893	1892	1893
Males, . . . . .	27,325	27,211	63.94	62.12
Females, . . . . .	11,776	12,430	27.56	28.38
Banks, trustees, etc., . . . . .	3,634	4,162	8.50	9.50
TOTALS, . . . . .	42,735	43,803	100.00	100.00

The total number of partners and stockholders in 1893 was 43,803 as against 42,735 in 1892. The males decreased from 27,325 to 27,211, and the proportion of males to the total number declined from 63.94 per cent to 62.12 per cent. On the other hand, the number of females increased from 27.56 per cent to 28.38 per cent.

In the following table the aggregate number of partners and stockholders, without regard to sex, is brought forward with percentages :

PARTNERS AND STOCKHOLDERS.	NUMBER		PERCENTAGES	
	1892	1893	1892	1893
Partners, . . . . .	5,671	5,519	13.27	12.60
Stockholders, . . . . .	37,064	38,284	86.73	87.40
TOTALS, . . . . .	42,735	43,803	100.00	100.00

The change from the private firm to the corporate form of business management, reflected in the tendency which we have noted from year to year, carried the percentage of stockholders from 86.73 in 1892 to 87.40 in 1893. The percentage of partners exhibited a corresponding decline from 13.27 in 1892 to 12.60 in 1893. Expressed in figures, the total number of stockholders in 1892 was 37,064, rising to 38,284 in 1893; while the total number of partners in 1892 was 5,671, declining to 5,519 in 1893. It should be borne in mind that these stockholders and partners were engaged in managing identical establishments in each of the years named; that is, the changes which have been noted, took place in 1893 within the same group of establishments.

The final analysis table relating to the subject of partners and stockholders exhibits the effect of the change from the private firm to the corporation upon the number of partners in the aggregate and in the average:

CLASSIFICATION.	NUMBER	
	1892	1893
Private firms, . . . . .	3,534	3,478
Partners, . . . . .	5,671	5,519
Average number of partners to a private firm, . . . . .	1.60	1.59
Corporations, . . . . .	820	872
Stockholders, . . . . .	37,064	38,284
Average number of stockholders to a corporation, . . . . .	45.20	43.90

The average number of partners to a private firm was 1.60 in 1892 and 1.59 in 1893, while the average number of stockholders to a corporation was 45.20 in 1892 and 43.90 in 1893; so that although the number of corporations increased

from 820 to 872, and the number of private firms declined from 3,534 to 3,478, the average number of partners to a private firm remained practically the same in each year, while the slight variation of 1.30 per cent is shown in the average number of stockholders to a corporation.

The returns relating to private firms, corporations, partners, and stockholders for 1893 are condensed into the following summary: The returns represent 4,397 establishments found in 75 different industries. The establishments are conducted by 3,478 private firms and 872 corporations. Expressed in percentages, 79.95 of the establishments are in the hands of private firms and 20.05 in the hands of corporations. The private firms and corporations are managed by 43,803 individuals, of whom 5,519, or 12.60 per cent, are partners and 38,284, or 87.40 per cent, are stockholders. Of the partners, 95.89 per cent are males, 2.34 per cent females, and 1.77 per cent estates, etc. Of the stockholders, 57.25 per cent are males, 32.13 per cent are females, and 10.62 per cent are banks, trustees, etc. Considering the partners and stockholders in the aggregate, 62.12 per cent are males, 28.38 per cent are females, and 9.50 per cent are banks, trustees, etc. The average number of partners to a private firm is 1.59, and the average number of stockholders to a corporation, 43.90.

### CAPITAL INVESTED: BY INDUSTRIES.

In the table on pages 14 and 15 comparison is made of the amount of capital invested in each of the 75 industries in 1892 and 1893. The total amount of capital reported by the 4,397 establishments, in the aggregate, was \$439,015,263 in 1892 and \$444,480,277 in 1893, an increase in the latter year of \$5,465,014, or 1.24 per cent.

The following industries, 41 in number, exhibit an increase in capital invested in 1893 as compared with 1892:

Arms and Ammunition.  
Artisans' Tools.  
Boots and Shoes.  
Boxes (Paper and Wooden).  
Brick, Tiles, and Sewer Pipe.  
Brooms, Brushes, and Mops.

Buttons and Dress Trimmings.  
Carpetings.  
Carriages and Wagons.  
Cement, Kaolin, Lime, and Plaster.  
Chemical Preparations (Compound-  
ed).

Cordage and Twine.  
 Drugs and Medicines.  
 Dyestuffs.  
 Electrical Apparatus and Appliances.  
 Emery and Sand Paper and Cloth,  
 etc.  
 Fancy Articles, etc.  
 Fertilizers.  
 Fine Arts and Taxidermy.  
 Glass.  
 Hair Work (Animal and Human).  
 Hosiery and Knit Goods.  
 Liquors and Beverages (Not Spirit-  
 uous).  
 Liquors: Malt, Distilled, and Fer-  
 mented.  
 Lumber.  
 Machines and Machinery.

Models, Lasts, and Patterns.  
 Musical Instruments and Materials.  
 Oils and Illuminating Fluids.  
 Paper and Paper Goods.  
 Polishes and Dressing.  
 Printing, Publishing, and Bookbind-  
 ing.  
 Print Works, Dye Works, and Bleach-  
 eries  
 Rubber and Elastic Goods.  
 Shipbuilding.  
 Silk and Silk Goods.  
 Sporting and Athletic Goods.  
 Straw and Palm Leaf Goods.  
 Tallow, Candles, Soap, and Grease.  
 Whips, Lashes, and Stocks.  
 Wooden Goods.

The following 33 industries show a decrease in amount of capital invested in 1893 as compared with 1892 :

Agricultural Implements.  
 Awnings, Sails, Tents, etc.  
 Burial Cases, Caskets, Coffins, etc.  
 Clocks, Watches, and Jewelry.  
 Clothing.  
 Cooking, Lighting, and Heating Ap-  
 paratus.  
 Corks, Bungs, and Taps.  
 Cotton Goods.  
 Cotton, Woollen, and Other Textiles.  
 Earthen, Plaster, and Stone Ware.  
 Electroplating.  
 Flax, Hemp, Jute, and Linen Goods.  
 Food Preparations.  
 Furniture.  
 Glue, Isinglass, and Starch.  
 Hose: Rubber, Linen, etc.  
 Ink, Mucilage, and Paste.  
 Ivory, Bone, Shell, and Horn Goods,  
 etc.

Leather.  
 Metals and Metallic Goods.  
 Mixed Textiles  
 Paints, Colors, and Crude Chemicals.  
 Perfumes, Toilet Articles, etc.  
 Photographs and Photographic Ma-  
 terials.  
 Railroad Construction and Equip-  
 ment.  
 Saddlery and Harness.  
 Scientific Instruments and Appli-  
 ances.  
 Stone.  
 Tobacco, Snuff, and Cigars.  
 Toys and Games (Children's).  
 Trunks and Valises.  
 Woollen Goods.  
 Worsted Goods.

The percentages of increase, as shown by the table on pages 14 and 15, range from 0.13 per cent in Brooms, Brushes, and Mops, to 30.30 per cent in Fine Arts and Taxidermy. The range of decrease is from 0.02 per cent in Earthen, Plaster,



and Stone Ware, to 28.07 in Corks, Bungs, and Taps. In Crayons, Pencils, Crucibles, etc. the capital invested remained the same in both years.

If we classify the establishments in nine selected industries, representing 44.10 per cent of the 4,397 establishments from which returns have been received, we obtain the following table :

INDUSTRIES.	Number of Establishments Considered	AMOUNT OF CAPITAL INVESTED		INCREASE (+), OR DECREASE (—), IN 1893	
		1892	1893	Amounts	Percentages
Boots and shoes, . . . .	712	\$29,067,583	\$29,303,026	+\$235,443	+0.81
Carpetings, . . . . .	11	7,828,754	7,993,248	+164,494	+2.10
Cotton goods, . . . . .	149	119,652,351	118,855,744	—796,607	—0.67
Leather, . . . . .	148	8,011,549	7,963,904	—47,645	—0.59
Machines and machinery, . .	335	30,811,473	32,917,618	+2,106,145	+6.84
Metals and metallic goods, .	341	20,780,435	20,390,350	—390,085	—1.88
Paper and paper goods, . .	98	21,944,434	23,137,410	+1,192,976	+5.44
Woollen goods, . . . . .	125	27,220,349	25,554,880	—1,665,469	—6.12
Worsted goods, . . . . .	20	12,132,889	11,038,952	—1,093,937	—9.02
Other industries, . . . . .	2,458	161,565,446	167,325,145	+5,759,699	+3.56
ALL INDUSTRIES, . . . .	4,397	\$439,015,263	\$444,480,277	+\$5,465,014	+1.24

The industries mentioned in detail in the above table are the principal industries of the State. The capital invested in the establishments returned in them was \$277,449,817 in 1892, or 63.20 per cent of the total capital, and \$277,155,132 in 1893, or 62.35 per cent of the total capital for All Industries. The 2,458 establishments included in the line "other industries" increased their capitalization from \$161,565,446 in 1892 to \$167,325,145 in 1893, a gain of 3.56 per cent. Of the leading industries there are four in which an increase of capital is shown and five which exhibit a decrease. The percentages indicate but slight changes, the increase or decrease in no case reaching ten per cent.

In this connection, it becomes necessary for us to call renewed attention to certain qualifying conditions affecting the results shown in the tables, so that unwarranted deductions from the returns may not be made. In the first place, the term "capital," as used in these reports, does not mean merely cash capital, or capital stock, but includes all forms of capital devoted to production. It includes not only cash, but notes or bills receivable, and the value of land, machinery, and



stock on hand or in process of manufacture; therefore the aggregate amounts stated as capital invested in the different industries include the actual capital of all forms found in the industry at the time of making the return. Inasmuch as some of the elements included as capital are variable from year to year, it follows that apparently wide fluctuations in the amount of capital invested will sometimes appear in the returns. A reduction in capital in any industry does not, of course, imply retrogression. It is clear that a small amount of stock on hand, or in process of manufacture, at the time the return is made, would have its effect in showing diminished capitalization, without, of course, affecting the condition of the industry. On the other hand, an investment in stock purchased in a favorable market, the same being held at the time of making the return, would render the amount of capital invested relatively larger than would be found at a time when the stock on hand was comparatively light.

### STOCK USED: BY INDUSTRIES.

The term "stock used" includes all kinds of materials consumed in the establishment, whether entering into the fabric article or consumed in the processes necessary to the production of the goods.

The table on pages 18 and 19 presents a comparison of the value of stock used in the different establishments making returns in each of the years 1892 and 1893. The table in detail requires no special analysis. In All Industries the total value of stock used was \$376,554,375 in 1892 and \$348,991,905 in 1893, a decrease of \$27,562,470, or 7.32 per cent. It will be noted that a decrease in value is shown in all the industries mentioned except the following in which an increase occurs:

Artisans' Tools.	Perfumes, Toilet Articles, etc.
Burial Cases, Caskets, Coffins, etc.	Railroad Construction and Equip-
Cement, Kaolin, Lime, and Plaster.	ment.
Cotton Goods.	Rubber and Elastic Goods.
Electroplating.	Shipbuilding.
Fertilizers.	Stone.
Flax, Hemp, Jute, and Linen Goods.	Straw and Palm Leaf Goods.
Glue, Isinglass, and Starch.	Tobacco, Snuff, and Cigars.
Liquors and Beverages (Not Spirit-	
uous).	

The percentages of increase range from 0.94 in Rubber and Elastic Goods to 109.96 in Railroad Construction and Equipment.

For the purpose of comparing the nine leading industries, we present the following table:

INDUSTRIES.	Number of Establishments Considered	VALUE OF STOCK USED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Boots and shoes, . . . .	712	\$62,667,535	\$55,028,688	—\$7,638,847	—12.19
Carpetings, . . . .	11	5,218,619	4,787,252	—431,367	—8.27
Cotton goods, . . . .	149	46,961,841	47,411,932	+450,091	+0.96
Leather, . . . .	148	11,891,499	11,033,354	—858,145	—7.22
Machines and machinery, . .	335	11,465,690	10,124,464	—1,341,226	—11.70
Metals and metallic goods, .	341	12,723,710	10,863,682	—1,860,028	—14.62
Paper and paper goods, . .	98	15,170,117	14,376,840	—793,277	—5.23
Woollen goods, . . . .	125	20,360,682	16,674,542	—3,686,140	—18.10
Worsted goods, . . . .	20	12,239,108	9,948,697	—2,290,411	—18.71
Other industries, . . . .	2,458	177,855,574	168,742,454	—9,113,120	—5.12
ALL INDUSTRIES, . . .	4,397	\$376,554,375	\$348,991,905	—\$27,562,470	—7.32

The establishments in the selected industries presented in the above table represent 44.10 per cent of the total number of establishments making returns for both years. The stock used in these industries represents 52.77 per cent of the total stock used in 1892 and 51.65 per cent of the total stock used in 1893. The decrease in the value of stock used in the nine industries, in 1893 as compared with 1892, is 9.29 per cent; the decrease in other industries is 5.12 per cent; and for All Industries 7.32 per cent. The only industry which exhibits an increase in value of stock used in the above table is Cotton Goods, the percentage of increase being 0.96.

If the reader will refer to the detailed industry presentations, pages 61 to 274, the reason for increase or decrease in the value of stock used in the nine leading industries will, in some instances, be seen. From the details there presented of stock and product, and the average values of materials, etc., it will frequently appear that the total value of stock has decreased or increased on account of the change in value of particular articles consumed. A decrease in value may not always mean a decrease in quantity of materials consumed, but, as indicated by the detailed presentations, a decrease in average value per basis.

## GOODS MADE: BY INDUSTRIES.

The table on pages 23 and 24 presents a comparison of the value of goods made in the different establishments supplying returns for the years 1892 and 1893. The total value of goods made and work done in the 4,397 establishments was, in 1892, \$639,137,402 and in 1893, \$587,343,550, showing a decrease in the last named year of \$51,793,852, or 8.10 per cent.

This is the first time since the inauguration of these reports that a decrease has been shown, when considering All Industries, and the extent of the decrease is very large when it is noted that out of the 75 industries containing 4,397 establishments but 13 industries with 389 establishments exhibit an increase in the value of goods made. These 13 industries produced goods in 1893 to the value of \$51,138,478, or but 8.71 per cent of the total value of product for All Industries in 1893.

As before stated, the decrease in value of goods made in 1893 as compared with 1892, is 8.10 per cent. The following industries show a decrease greater than that shown for All Industries: Awnings, Sails, Tents, etc., 18.30 per cent; Boots and Shoes, 10.72 per cent; Buttons and Dress Trimmings, 12.93 per cent; Carpetings, 9.58 per cent; Chemical Preparations (Compounded), 17.58 per cent; Clocks, Watches, and Jewelry, 18.15 per cent; Clothing, 11.99 per cent; Cotton, Woollen, and other Textiles, 16.54 per cent; Crayons, Pencils, Crucibles, etc., 37.40 per cent; Dyestuffs, 36.19 per cent; Electrical Apparatus and Appliances, 41.22 per cent; Emery and Sand Paper and Cloth, etc., 23.88 per cent; Fancy Articles, etc., 9.37 per cent; Furniture, 11.45 per cent; Glass, 19.03 per cent; Hair Work (Animal and Human), 26.37 per cent; Hosiery and Knit Goods, 11.79 per cent; Ivory, Bone, Shell, and Horn Goods, etc., 9.48 per cent; Leather, 16.60 per cent; Lumber, 8.44 per cent; Metals and Metallic Goods, 12.88 per cent; Mixed Textiles, 10.90 per cent; Models, Lasts, and Patterns, 10.21 per cent; Musical Instruments and Materials, 37.12 per cent; Oils and Illuminating Fluids, 8.12 per cent; Paper and Paper Goods, 12.61 per cent; Perfumes, Toilet Articles, etc., 10.96 per cent; Photographs and Photographic Materials, 25.45 per cent; Polishes and Dressing, 8.71 per cent; Saddlery and Harness, 25.49 per cent; Scientific Instru-

ments and Appliances, 8.98 per cent; Silk and Silk Goods, 20.44 per cent; Sporting and Athletic Goods, 25.51 per cent; Trunks and Valises, 18.67 per cent; Whips, Lashes, and Stocks, 8.37 per cent; Woollen Goods, 17.65 per cent; and Worsted Goods, 10.39 per cent.

If the same leading industries, which have previously been selected for comparison, be considered as to increase or decrease in value of product, we obtain the following table :

INDUSTRIES.	Number of Establishments Considered	VALUE OF GOODS MADE AND WORK DONE		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percentages
Boots and shoes, . . . .	712	\$103,878,098	\$92,740,686	—\$11,137,412	—10.72
Carpetings, . . . . .	11	8,214,540	7,427,385	—787,155	—9.58
Cotton goods, . . . . .	149	90,811,928	88,189,618	—2,622,310	—2.89
Leather, . . . . .	148	18,644,270	15,548,822	—3,095,448	—16.60
Machines and machinery, . .	335	29,960,988	27,975,359	—1,985,629	—6.63
Metals and metallic goods, .	341	26,259,252	22,878,245	—3,381,007	—12.88
Paper and paper goods, . .	98	26,029,658	22,746,104	—3,283,554	—12.61
Woollen goods, . . . . .	125	34,074,848	28,061,654	—6,013,194	—17.65
Worsted goods, . . . . .	20	17,328,062	15,528,227	—1,799,835	—10.39
Other industries, . . . . .	2,458	283,935,758	266,247,450	—17,688,308	—6.23
ALL INDUSTRIES, . . . .	4,397	\$639,137,402	\$587,343,550	—\$51,793,852	—8.10

The total value of goods made and work done in these nine selected industries represents 55.58 per cent of the aggregate value for All Industries in 1892 and 54.67 per cent in 1893. The decrease in the value of goods made and work done shown for these selected industries in 1893 as compared with 1892 is \$34,105,544, or 9.60 per cent. All other industries comprised in the returns, aggregating 2,458 establishments, show a decrease of \$17,688,308, or 6.23 per cent. It will be noted that every industry in the selected list exhibits a decrease in value of product, ranging from 2.89 per cent in Cotton Goods to 17.65 per cent in Woollen Goods.

On page 240 of the report on Annual Statistics of Manufactures for 1891, it is shown, taking the returns from 1,130 establishments in 1887 and each subsequent year, that in 1891 as compared with 1887, an increase of 12 per cent was found, or an average increase of three per cent in each year. We have, in previous reports, accepted this average as indicating the normal rate of increase in the industries as a whole from year to year.



In the following table we present the increase in value of goods made and work done each year, as shown by former published reports beginning with the year 1886 :

COMPARATIVE YEARS.	Number of Establish- ments Considered in Each Year Compared	INCREASE (+), OR DECREASE (-), IN VALUE OF GOODS MADE AND WORK DONE IN EACH YEAR AS COMPARED WITH THE PREVIOUS YEAR	
		Amounts	Percentages
1886, 1887, . . . . .	1,027	+\$13,919,859	+5.29
1887, 1888, . . . . .	1,140	+11,168,095	+3.61
1888, 1889, . . . . .	1,364	+9,653,992	+2.45
1889, 1890, . . . . .	3,041	+22,838,970	+4.37
1890, 1891, . . . . .	3,745	+8,068,053	+1.33
1891, 1892, . . . . .	4,473	+33,180,865	+5.37
1892, 1893, . . . . .	4,397	-51,793,852	-8.10

The above table indicates an increase in the value of goods made and work done in 1887 as compared with 1886 (1,027 establishments making return) of 5.29 per cent; in 1888 as compared with 1887 (1,140 establishments) an increase of 3.61 per cent; in 1889 as compared with 1888 (1,364 establishments) an increase of 2.45 per cent; in 1890 as compared with 1889 (3,041 establishments) the increase amounted to 4.37 per cent; in 1891 as compared with 1890 (3,745 establishments) the increase was but 1.33 per cent; in 1892 when compared with 1891 (4,473 establishments) the increase was 5.37 per cent, the largest increase yet shown; but in 1893 as compared with 1892 (4,397 establishments) for the first time a decrease appears, the percentage being 8.10. The average rate of increase in each comparative year, except 1892, 1893, is 3.74 per cent, a little above the "normal rate of increase" which, as we have said, was shown in the report for 1891 to be three per cent; but the conditions have been changed in 1893 for the normal rate is lost completely when comparing this year with 1892, and in place of a healthful increase a large decrease is exhibited which has the effect of reducing the average rate of increase in each comparative year to 2.05 per cent.

On pages 25 to 35 a table appears which permits comparison, as regards the value of goods made and work done in each industry, between any two of five consecutive years beginning with 1889. The table presents the value of goods made and work done in each year of the five, the returns being made by

the same establishments each year. The total number of these establishments is 2,472; the results in the aggregate are brought forward in the following analysis table:

YEARS.	Number of Establishments Considered	Value of Goods Made and Work Done	INCREASE (+), OR DECREASE (-), AS COMPARED WITH PREVIOUS YEAR	
			Amounts	Percentages
1889, . . . . .	2,472	\$465,447,602	-	-
1890, . . . . .	2,472	496,024,255	+\$30,576,653	+6.57
1891, . . . . .	2,472	501,768,326	+5,744,071	+1.16
1892, . . . . .	2,472	530,131,769	+28,363,443	+5.65
1893, . . . . .	2,472	484,288,854	-45,842,915	-8.65

The total value of goods made and work done in the 2,472 establishments represented in the year 1889 was \$465,447,602, rising to \$496,024,255 in 1890, a gain of 6.57 per cent. In 1891 a further gain of 1.16 per cent was made and in 1892 the gain was even larger, being 5.65 per cent, but in 1893 as compared with 1892, the product value declined from \$530,131,769 to \$484,288,854, a loss of 8.65 per cent. In regard to the nine leading industries the following facts appear from the table beginning on page 25: In Boots and Shoes an increase in product is shown in 1890 as compared with 1889 and in 1892 as compared with 1891; a decrease is shown in the other years. The same facts are also shown for Cotton Goods, Leather, and Metals and Metallic Goods. In Carpetings, an increase in product is shown in 1890 as compared with 1889 and in 1891 as compared with 1890, while a decrease in product value is shown in both 1892 and 1893 in comparison with each previous year. In Machines and Machinery an increase is found in 1892 as compared with 1891, and a decrease in each of the other years as compared with the year previous. In Paper and Paper Goods and Woollen Goods a decrease is found in 1890 as compared with 1889 and in 1893 as compared with 1892, but an increase is shown in 1891 as compared with 1890 and in 1892 as compared with 1891. In Worsted Goods a decline is found in 1893 as compared with 1892, but in each of the other years an increase appears as compared with the year previous.

It may be interesting to place in comparison for the nine leading industries and for All Industries, the number of establishments considered in the two year comparison (pages 23 and 24) and in the five year comparison (pages 25 to 35) together



with the percentages of decrease in value of product. This is shown below :

INDUSTRIES.	NUMBER OF ESTABLISHMENTS CONSIDERED IN THE —		PERCENTAGES OF DECREASE IN VALUE OF PRODUCT IN THE —	
	Two Year Comparison	Five Year Comparison	Two Year Comparison	Five Year Comparison
Boots and shoes, . . . . .	712	347	10.72	12.17
Carpetings, . . . . .	11	9	9.58	7.52
Cotton goods, . . . . .	149	136	2.89	4.86
Leather, . . . . .	148	96	16.60	15.71
Machines and machinery, . . . . .	335	155	6.63	6.76
Metals and metallic goods, . . . . .	341	180	12.88	12.99
Paper and paper goods, . . . . .	98	73	12.61	11.94
Woollen goods, . . . . .	125	98	17.65	17.32
Worsted goods, . . . . .	20	16	10.39	9.22
ALL INDUSTRIES, . . . . .	4,397	2,472	8.10	8.65

It is to be understood that the comparison made above is between 1892 and 1893, and that the 2,472 establishments, which enter into the five year comparison, are also included among the 4,397 establishments which are presented in the two year comparison. It is seen that in Boots and Shoes, Cotton Goods, Machines and Machinery, Metals and Metallic Goods, and All Industries the percentages of decrease are higher in the five year comparison; the percentages are lower in Carpetings, Leather, Paper and Paper Goods, Woollen Goods, and Worsted Goods.

In the following table, the returns for 2,472 establishments for 1890 and each subsequent year, are compared with each previous year beginning with 1889 :

CLASSIFICATION.	INCREASE (+), OR DECREASE (—), IN THE VALUE OF GOODS MADE AND WORK DONE	
	Amounts	Percentages
1890 as compared with 1889, . . . . .	+\$30,576,653	+6.57
1891 as compared with 1889, . . . . .	+36,320,724	+7.80
1892 as compared with 1889, . . . . .	+64,684,167	+13.90
1893 as compared with 1889, . . . . .	+18,841,252	+4.05
1891 as compared with 1890, . . . . .	+5,744,071	+1.16
1892 as compared with 1890, . . . . .	+34,107,514	+6.88
1893 as compared with 1890, . . . . .	—11,735,401	—2.37
1892 as compared with 1891, . . . . .	+28,363,443	+5.65
1893 as compared with 1891, . . . . .	—17,479,472	—3.48
1893 as compared with 1892, . . . . .	—45,842,915	—8.65

In 1893 as compared with 1889 an increase of 4.05 per cent appears, or an average increase of 1.01 per cent per year, which is below the normal rate previously alluded to. In 1893 as compared with 1890 a decrease of 2.37 per cent is found rising to 3.48 per cent when 1893 is compared with 1891, and to 8.65 per cent when comparing 1893 with 1892.

These comparisons for the five specified years are based upon the leading establishments making returns for each of the years. The number of such establishments is 2,472 and the value of goods made and work done in 1893 was \$484,288,854, or 82.45 per cent of the value of goods made and work done in 1893 for the 4,397 establishments shown in the two year comparison on pages 23 and 24. From the returns of these 2,472 establishments the following graphic presentation is derived, which exhibits the fact of increase or decrease in product in each of the industries in each of the years subsequent to 1889 as compared with the product returned in 1889, the sign (+) indicating a gain and the sign (—) a decrease :

INDUSTRIES.	1890 as Compared with 1889	1891 as Compared with 1889	1892 as Compared with 1889	1893 as Compared with 1889
Agricultural implements, . . . . .	+	—	—	—
Arms and ammunition, . . . . .	+	+	+	+
Artisans' tools, . . . . .	+	+	+	+
Awnings, sails, tents, etc., . . . . .	+	+	+	+
Boots and shoes, . . . . .	+	+	+	+
Boxes (paper and wooden), . . . . .	+	+	+	+
Brick, tiles, and sewer pipe, . . . . .	+	+	+	+
Brooms, brushes, and mops, . . . . .	+	+	+	+
Burial cases, caskets, coffins, etc., . . . . .	—	—	—	+
Buttons and dress trimmings, . . . . .	—	+	+	—
Carpetings, . . . . .	+	+	+	+
Carriages and wagons, . . . . .	+	+	+	+
Cement, kaolin, lime, and plaster, . . . . .	—	—	—	—
Chemical preparations (compounded), . . . . .	+	+	+	+
Clocks, watches, and jewelry, . . . . .	+	+	+	—
Clothing, . . . . .	+	+	+	—
Cooking, lighting, and heating apparatus, . . . . .	—	+	+	—
Cordage and twine, . . . . .	+	+	+	+
Corks, bungs, and taps, . . . . .	—	—	—	—
Cotton goods, . . . . .	+	+	+	—
Cotton, woolen, and other textiles, . . . . .	+	+	+	—
Crayons, pencils, crucibles, etc., . . . . .	+	+	—	—
Drugs and medicines, . . . . .	+	+	+	+
Dyestuffs, . . . . .	—	—	—	—

INDUSTRIES.	1890 as Compared with 1889	1891 as Compared with 1889	1892 as Compared with 1889	1893 as Compared with 1889
Earthen, plaster, and stone ware, . . .	+	+	+	+
Electrical apparatus and appliances, . .	+	+	+	+
Electroplating, . . . . .	—	+	+	+
Emery and sand paper and cloth, etc., .	+	+	+	—
Fancy articles, etc., . . . . .	+	+	+	+
Fertilizers, . . . . .	—	—	—	—
Fine arts and taxidermy, . . . . .	+	+	+	+
Flax, hemp, jute, and linen goods, . .	+	+	+	+
Food preparations, . . . . .	+	+	+	+
Furniture, . . . . .	+	+	+	+
Glass, . . . . .	—	+	+	—
Glue, isinglass, and starch, . . . .	+	+	+	+
Hair work (animal and human), . . .	+	+	+	+
Hosiery and knit goods, . . . . .	+	+	+	+
Ink, mucilage, and paste, . . . . .	+	+	+	+
Ivory, bone, shell, and horn goods, etc.,	+	+	+	—
Leather, . . . . .	+	—	+	—
Liquors and beverages (not spirituous), .	+	+	+	+
Liquors: malt, distilled, and fermented, .	+	+	+	+
Lumber, . . . . .	+	+	+	+
Machines and machinery, . . . . .	—	—	+	—
Metals and metallic goods, . . . . .	+	+	+	—
Mixed textiles, . . . . .	+	+	+	—
Models, lasts, and patterns, . . . . .	+	+	+	+
Musical instruments and materials, . .	+	+	+	—
Oils and illuminating fluids, . . . . .	—	+	—	—
Paints, colors, and crude chemicals, . .	+	+	+	+
Paper and paper goods, . . . . .	—	+	+	—
Photographs and photographic materials, .	+	+	+	—
Polishes and dressing, . . . . .	+	+	+	+
Printing, publishing, and bookbinding, .	—	—	+	—
Print works, dye works, and bleacheries, .	+	—	+	+
Railroad construction and equipment, . .	—	—	—	+
Rubber and elastic goods, . . . . .	+	+	+	+
Saddlery and harness, . . . . .	—	+	+	—
Scientific instruments and appliances, . .	+	+	+	+
Shipbuilding, . . . . .	+	+	+	+
Silk and silk goods, . . . . .	—	+	+	—
Sporting and athletic goods, . . . . .	+	+	+	+
Stone, . . . . .	—	—	—	—
Straw and palm leaf goods, . . . . .	+	+	+	+
Tallow, candles, soap, and grease, . . .	+	+	+	+
Tobacco, snuff, and cigars, . . . . .	+	+	+	+
Toys and games (children's), . . . . .	+	+	+	+
Trunks and valises, . . . . .	+	+	+	+
Whips, lashes, and stocks, . . . . .	+	+	+	+
Wooden goods, . . . . .	+	+	+	+
Woollen goods, . . . . .	—	+	+	—
Worsted goods, . . . . .	+	+	+	+
TOTALS, . . . . .	+	+	+	+

As shown by the foregoing table, the following 41 industries exhibit a gain in value of product in each subsequent year as compared with 1889 :

Arms and Ammunition.	Ink, Mucilage, and Paste.
Artisans' Tools.	Liquors and Beverages (Not Spirituous).
Awnings, Sails, Tents, etc.	Liquors: Malt, Distilled, and Fermented.
Boots and Shoes.	Lumber.
Boxes (Paper and Wooden).	Models, Lasts, and Patterns.
Brick, Tiles, and Sewer Pipe.	Paints, Colors, and Crude Chemicals.
Brooms, Brushes, and Mops.	Polishes and Dressing.
Carpetings.	Rubber and Elastic Goods.
Carriages and Wagons.	Scientific Instruments and Appliances.
Chemical Preparations (Compound- ed).	Shipbuilding.
Cordage and Twine.	Sporting and Athletic Goods.
Drugs and Medicines.	Straw and Palm Leaf Goods.
Earthen, Plaster, and Stone Ware.	Tallow, Candles, Soap, and Grease.
Electrical Apparatus and Appliances.	Tobacco, Snuff, and Cigars.
Fancy Articles, etc.	Toys and Games (Children's).
Fine Arts and Taxidermy.	Trunks and Valises.
Flax, Hemp, Jute, and Linen Goods.	Whips, Lashes, and Stocks.
Food Preparations.	Wooden Goods.
Furniture.	Worsted Goods.
Glue, Isinglass, and Starch.	
Hair Work (Animal and Human).	
Hosiery and Knit Goods.	

Not only is this statement true of the industries mentioned in detail, but all of the industries here represented exhibit, as shown by the total line of the preceding table, an increase in aggregate value of product each year beginning with 1890.

The following five industries show a yearly decline in value of product as compared with 1889 :

Cement, Kaolin, Lime, and Plaster.	Fertilizers.
Corks, Bungs, and Taps.	Stone.
Dyestuffs.	

Agricultural Implements exhibits an increase in 1890 as compared with 1889 but an annual decrease in 1891, 1892, and 1893. Burial Cases, Caskets, Coffins, etc., shows a decrease in product in 1890, 1891, and 1892 compared with 1889 with an increase in 1893 as compared with 1889; this is true also of Railroad Construction and Equipment. Buttons and Dress Trimmings exhibits a decrease in 1890 and 1893 as compared

with 1889 and an increase in 1891 and 1892 as compared with 1889; in this class are included Cooking, Lighting, and Heating Apparatus; Glass; Paper and Paper Goods; Saddlery and Harness; Silk and Silk Goods; and Woollen Goods. The industries which show an increase in value of product in each year, except 1893, when compared with 1889 are Clocks, Watches, and Jewelry; Clothing; Cotton Goods; Cotton, Woollen, and Other Textiles; Emery and Sand Paper and Cloth, etc.; Ivory, Bone, Shell, and Horn Goods, etc.; Metals and Metallic Goods; Mixed Textiles; Musical Instruments and Materials; and Photographs and Photographic Materials. Crayons, Pencils, Crucibles, etc., shows an increase in 1890 and 1891 as compared with 1889 but a decrease in 1892 and 1893. Print Works, Dye Works, and Bleacheries shows an increase in 1890, 1892, and 1893 when compared with 1889 but a decrease in 1891. An increase is shown in all years, save 1890, for Electroplating, and in Leather the years 1890 and 1892 only exhibit increase in product value. Increase only in 1892 as compared with 1889 is shown for Machines and Machinery and Printing, Publishing, and Bookbinding, and in 1891 only for Oils and Illuminating Fluids.

### PERSONS EMPLOYED: BY INDUSTRIES.

The statistical presentations relative to persons employed will be found upon pages 37 to 48. In the following analysis table, data as to the average number of persons employed in the nine leading industries are brought forward, in comparison with other industries, and with All Industries:

INDUSTRIES.	Number of Establishments Considered	AVERAGE NUMBER OF PERSONS EMPLOYED DURING THE YEAR		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Number	Percentages
Boots and shoes, . . . . .	712	48,859	45,389	-3,470	-7.10
Carpetings, . . . . .	11	4,703	4,335	-368	-7.82
Cotton goods, . . . . .	149	73,748	73,540	-208	-0.28
Leather, . . . . .	148	5,918	5,602	-316	-5.34
Machines and machinery, . . . . .	335	17,979	17,495	-484	-2.69
Metals and metallic goods, . . . . .	341	14,356	13,313	-1,043	-7.27
Paper and paper goods, . . . . .	98	10,085	9,658	-427	-4.23
Woollen goods, . . . . .	125	17,100	15,857	-1,243	-7.27
Worsted goods, . . . . .	20	8,996	9,025	+29	+0.32
Other industries, . . . . .	2,458	104,459	98,955	-5,504	-5.27
ALL INDUSTRIES, . . . . .	4,297	306,203	293,169	-13,034	-4.26



The final line of the table indicates that in the 4,397 establishments in All Industries, an average number of 306,203 persons was employed in 1892, and in 1893 these same establishments employed an average of 293,169 persons, a decrease of 13,034, or 4.26 per cent. All of the leading industries, except Worsted Goods, show a decrease in the average number of persons employed in 1893 as compared with 1892, the largest percentage of decrease being found in Carpetings, in which 4,703 persons were employed in the 11 establishments making return in 1892 and 4,335 persons in 1893, a decrease of 7.82 per cent.

The next highest percentage of decrease is found in Metals and Metallic Goods and Woollen Goods, the percentage being 7.27 in both industries. The other industries in the table show percentages of decrease as follows: Boots and Shoes, 7.10; Cotton Goods, 0.28; Leather, 5.34; Machines and Machinery, 2.69; and Paper and Paper Goods, 4.23; and, as stated above, an increase is shown in Worsted Goods of 0.32 per cent. In the line "other industries," which includes 2,458 establishments, the decrease in 1893 as compared with 1892 is 5.27 per cent.

Referring to the Industry Presentations, pages 61 to 274, we find a number of industries which exhibit a much larger percentage of decrease than is shown for All Industries, which, it will be remembered is 4.26. These are:

Arms and Ammunition.	Electrical Apparatus and Appliances.
Artisans' Tools.	Fancy Articles, etc.
Boots and Shoes.	Fertilizers.
Boxes (Paper and Wooden).	Food Preparations.
Brick, Tiles, and Sewer Pipe.	Furniture.
Buttons and Dress Trimmings.	Glass.
Carpetings.	Hair Work (Animal and Human).
Carriages and Wagons.	Ivory, Bone, Shell, and Horn Goods, etc.
Chemical Preparations (Compound- ed).	Leather.
Clocks, Watches, and Jewelry.	Liquors and Beverages (Not Spirit- uous).
Clothing.	Metals and Metallic Goods.
Cooking, Lighting, and Heating Apparatus.	Musical Instruments and Materials.
Corks, Bungs, and Taps.	Oils and Illuminating Fluids.
Cotton, Woollen, and other Textiles.	Perfumes, Toilet Articles, etc.
Crayons, Pencils, Crucibles, etc.	Photographs and Photographic Ma- terials.
Drugs and Medicines.	
Dyestuffs.	



Saddlery and Harness.

Scientific Instruments and Appli-  
ances.

Silk and Silk Goods.

Sporting and Athletic Goods.

Toys and Games (Children's).

Trunks and Valises.

Whips, Lashes, and Stocks.

Wooden Goods.

Woollen Goods.

There are but 12 industries which exhibit an increase in the average number of persons employed, namely, Burial Cases, Caskets, Coffins, etc.; Earthen, Plaster, and Stone Ware; Flax, Hemp, Jute, and Linen Goods; Hose: Rubber, Linen, etc.; Hosiery and Knit Goods; Liquors: Malt, Distilled, and Fermented; Lumber; Railroad Construction and Equipment; Rubber and Elastic Goods; Shipbuilding; Stone; and Worsted Goods.

We have always pointed out in these reports that the amount of employment furnished in the different industries cannot be determined by merely considering the average number of persons employed. The statistical presentations therefore show the number of persons employed at the periods of employment of the smallest number, and also the number employed at the periods of employment of the greatest number. A comparison of the two, of course, indicates the range of unemployment. The first details as to the number employed at periods of employment of the smallest number in the nine leading industries, in the other industries, and in all industries in the aggregate, are brought forward in the following table:

INDUSTRIES.	Number of Estab- lishments Con- sidered	SMALLEST NUMBER OF PERSONS EMPLOYED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Number	Percent- ages
Boots and shoes, . . . . .	712	40,761	34,039	-6,722	-16.49
Carpetings, . . . . .	11	4,434	1,917	-2,517	-56.77
Cotton goods, . . . . .	149	70,836	61,735	-9,101	-12.84
Leather, . . . . .	148	4,853	3,783	-1,070	-22.05
Machines and machinery, . . . . .	335	15,597	12,621	-2,976	-19.08
Metals and metallic goods, . . . . .	341	12,365	10,336	-2,029	-16.41
Paper and paper goods, . . . . .	98	9,197	8,015	-1,182	-12.85
Woollen goods, . . . . .	125	15,204	11,240	-3,964	-26.07
Worsted goods, . . . . .	20	8,117	6,791	-1,326	-16.34
Other industries, . . . . .	2,458	85,754	71,843	-13,911	-16.22
ALL INDUSTRIES, . . . . .	4,397	267,168	222,370	-44,798	-16.77

The final line of the table indicates that 267,168 persons were employed at the periods of employment of the smallest number in 1892, and at the corresponding periods in 1893, 222,370 per-

sons were employed, a decrease of 16.77 per cent. Each of the leading industries represented in the table employed a smaller number of persons in 1893 at the periods of employment of the smallest number than was employed in 1892; the percentages of decrease ranging from 12.84 in Cotton Goods to 56.77 in Carpetings. The decrease in Boots and Shoes was 16.49 per cent; in Leather, 22.05 per cent; in Machines and Machinery, 19.08 per cent; in Metals and Metallic Goods, 16.41 per cent; in Paper and Paper Goods, 12.85 per cent; in Woollen Goods, 26.07 per cent; and in Worsted Goods, 16.34 per cent. In the industries, other than those named in detail, an aggregate of 16.22 per cent less persons was employed at these periods in 1893 than in 1892.

A similar comparison as to the number of persons employed at the periods of employment of the greatest number is shown in the following table:

INDUSTRIES.	Number of Establishments Considered	GREATEST NUMBER OF PERSONS EMPLOYED		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Number	Percentages
Boots and shoes, . . . . .	712	56,611	55,665	-946	-1.67
Carpetings, . . . . .	11	4,919	5,031	+112	+2.28
Cotton goods, . . . . .	149	76,442	78,949	+2,507	+3.28
Leather, . . . . .	148	7,038	7,320	+282	+4.01
Machines and machinery, . . . . .	335	20,495	21,216	+721	+3.52
Metals and metallic goods, . . . . .	341	16,053	15,611	-442	-2.78
Paper and paper goods, . . . . .	98	10,724	10,754	+30	+0.28
Woollen goods, . . . . .	125	18,313	18,581	+268	+1.46
Worsted goods, . . . . .	20	9,813	10,270	+457	+4.66
Other industries, . . . . .	2,458	123,591	121,991	-1,600	-1.29
ALL INDUSTRIES, . . . . .	4,397	344,004	345,388	+1,384	+0.40

The number of persons employed at the periods of employment of the greatest number in All Industries in 1892 was 344,004, rising to 345,388 in 1893, a gain of 0.40 per cent. Worsted Goods shows the greatest percentage of increase, namely, 4.66; this is nearly matched in Leather, however, in which the percentage of increase is 4.01. The percentages of increase in the other industries are as follows: Carpetings, 2.28; Cotton Goods, 3.28; Machines and Machinery, 3.52; Paper and Paper Goods, 0.28; and Woollen Goods, 1.46. A decrease is shown in Boots and Shoes of 1.67 per cent and in

Metals and Metallic Goods of 2.78 per cent. In all other industries the aggregate decrease is 1.29 per cent.

For the purpose of exhibiting the range of unemployment year by year since 1886, as shown by the annual reports, the following table is presented :

COMPARATIVE YEARS.					Number of Estab- lishments Con- sidered	Aggregates : Persons Employed at Periods of Em- ployment of Smallest Number	Aggregates : Persons Employed at Periods of Em- ployment of Greatest Number	" Range "
1886,	.	.	.	.	1,027	129,843	167,913	38,070
1887,	.	.	.	.	1,027	135,271	172,175	36,904
1887,	.	.	.	.	1,140	149,714	190,194	40,480
1888,	.	.	.	.	1,140	147,593	191,234	43,641
1888,	.	.	.	.	1,364	169,610	221,307	51,697
1889,	.	.	.	.	1,364	176,097	221,449	43,352
1889,	.	.	.	.	3,041	224,887	293,321	68,434
1890,	.	.	.	.	3,041	234,324	300,227	65,903
1890,	.	.	.	.	3,745	251,107	322,288	71,181
1891,	.	.	.	.	3,745	258,771	329,634	70,863
1891,	.	.	.	.	4,473	260,419	335,919	75,500
1892,	.	.	.	.	4,473	271,399	352,939	81,540
1892,	.	.	.	.	4,397	267,168	344,004	76,836
1893,	.	.	.	.	4,397	222,370	345,388	123,018

In this table seven groups appear. The first exhibits a comparison between 1886 and 1887. In those years returns were received from 1,027 establishments, each of which made return for each of the years named. The difference between the number of persons employed at periods of employment of the smallest number, and the number employed at periods of employment of the greatest number in 1886 was 38,070, and in 1887, 36,904. In other words, 38,070 more persons in the aggregate were employed at periods of employment of the greatest number of persons than at the periods of employment of the smallest number in 1886; but only 36,904 more persons in 1887. This indicates a narrower range of unemployment in 1887 than in 1886. Applying the same method of comparison to the different periods shown in the table, we find a wider range of unemployment in 1888 than in 1887; a narrower range in 1889 than in 1888, in 1890 than in 1889, and in 1891 than in 1890; but, on the other hand, a wider range of unemployment is shown in 1892 than in 1891 and in 1893 than in 1892.

In the following table, the numerical aggregates shown in the comparison by groups beginning with 1886 have been reduced to percentages :

COMPARATIVE YEARS.	Number of Establishments Considered	PERCENTAGES		
		Persons Employed at Periods of Employment of Smallest Number of Persons Employed at Periods of Employment of Greatest Number	Range (Unemployed at some time During the Year)	Persons Employed at Periods of Employment of Greatest Number
1886, . . . . .	1,027	77.33	22.67	100.00
1887, . . . . .	1,027	78.57	21.43	100.00
1887, . . . . .	1,140	78.72	21.28	100.00
1888, . . . . .	1,140	77.18	22.82	100.00
1888, . . . . .	1,364	76.64	23.36	100.00
1889, . . . . .	1,364	79.52	20.48	100.00
1889, . . . . .	3,041	76.67	23.33	100.00
1890, . . . . .	3,041	78.05	21.95	100.00
1890, . . . . .	3,745	77.91	22.09	100.00
1891, . . . . .	3,745	78.50	21.50	100.00
1891, . . . . .	4,473	77.52	22.48	100.00
1892, . . . . .	4,473	76.90	23.10	100.00
1892, . . . . .	4,397	77.66	22.34	100.00
1893, . . . . .	4,397	64.38	35.62	100.00

In order that these percentages may have their full effect, let it be borne in mind that if no persons were out of employment at any time during the year, in the establishments making return in the different industries, the percentage of persons employed throughout the year would stand at 100; but, inasmuch as at the periods of employment of the smallest number, less persons are employed than at the periods of employment of the greatest number, the difference between the number of persons employed at these two periods may be represented by a percentage which indicates the number of persons unemployed at some time during the year. This percentage is shown in the table in the third column.

Taking the first line of the table, the percentage indicates that in 1886, 22.67 per cent of the number of persons employed at periods of employment of the greatest number were unemployed, in the establishments making return, at the periods of employment of the smallest number. The corresponding percentage in 1887 was 21.43. The percentage being larger in 1886 than in 1887 indicates that the range of unemployment



was greater in that year. Each of the other periods may be compared in the same way. The least percentage of variation shown in any single year between the number employed at the periods of employment of the greatest number, and the number employed at the periods of employment of the smallest number is found in 1889, this percentage being 20.48. In 1892 the percentage of variation was 23.10, while in 1891 it was 22.48. In 1893, however, the percentage unemployed at some time during the year takes a decided leap from the general average of 22.21 per cent for each of the groups, except the last, to 35.62 per cent, a variation of 13.41 per cent.

The following presentation, brought forward from the table on page 272, exhibits the aggregate number of persons employed in each specified month :

MONTHS.	AGGREGATE NUMBER OF PERSONS EMPLOYED IN EACH SPECIFIED MONTH		AVERAGE NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT IN EACH SPECIFIED MONTH	
	1892	1893	1892	1893
January, . . . . .	297,195	311,470	68	71
February, . . . . .	301,779	313,494	69	71
March, . . . . .	304,595	316,919	69	72
April, . . . . .	307,881	319,818	70	73
May, . . . . .	307,621	318,638	70	72
June, . . . . .	305,611	310,485	70	71
July, . . . . .	302,158	293,203	69	67
August, . . . . .	303,647	263,874	69	60
September, . . . . .	308,087	248,404	70	56
October, . . . . .	310,813	270,972	71	62
November, . . . . .	311,637	271,409	71	62
December, . . . . .	310,303	272,561	71	62

In this table is shown the aggregate number of persons employed for All Industries during each month of the years specified. It has been found in previous years that, although the percentages of unemployment, as indicated in the table previously presented, may show a rather wide range, no very large variation in the number of persons employed month by month occurs under normal conditions; this is shown in the average number of persons employed in each establishment in each of the specified months during 1892. This average did not fall below 68 in 1892 nor rise above 71. In 1893, however, a much greater variation appears, the smallest average, 56,

occurring in September, while the highest average was 73 in the month of April. The grand average per establishment was 70 in 1892 and 67 in 1893.

If it be borne in mind that 4,397 establishments enter into the comparison between 1892 and 1893, we shall at once recognize the large number of persons which, in the aggregate, will appear as unemployed if only a slight reduction of the working force is made in each establishment. For instance, the discharge of one person from each of these establishments would not of itself be thought worthy of comment, nor would it be likely to be noticed as an evidence of industrial depression, yet it would mean in the aggregate 4,397 persons unemployed. If ten persons were dropped from the rolls in each establishment, it would carry the aggregate number unemployed to 43,970 persons, yet even the discharge of ten persons from establishments of the capacity of those which enter into these returns would not be thought a large reduction in the number of employés. When it is remembered that these establishments are only a small part of the whole number of establishments engaged in manufactures and mechanical industries in the United States, it at once becomes plain that a very slight industrial depression, if felt throughout the country, would quickly result in the unemployment of possibly 1,000,000 persons, the number which is frequently ascribed to "the army of the unemployed," and that such an army, if in existence at any particular time, would not be indicative of an industrial condition either abnormal or particularly severe, if the unemployment were uniformly distributed over the whole number of establishments. If, however, as at the periods of employment of the smallest number in 1893, the percentage of unemployment rises to 35.62, more than one-third the whole number found at work at the time of employment of the greatest number, and this condition exists over the whole country, the aggregate number unemployed must inevitably be very large, without taking into account the number thrown out in trade, transportation, or other branches of industry, which, of course, suffer whenever manufacturing is depressed.

To bring the range of unemployment as indicated by percentages clearly before the reader, the following table for the nine principal industries and for All Industries is presented :



INDUSTRIES, AND MONTHS.	PERCENTAGES OF EMPLOYMENT DURING THE MONTHS SPECIFIED		PERCENTAGES OF UNEMPLOYMENT DURING THE MONTHS SPECIFIED	
	1892	1893	1892	1893
<i>Boots and Shoes.</i>				
January, . . . . .	92.65	96.65	7.35	3.35
February, . . . . .	94.75	98.15	5.25	1.85
March, . . . . .	95.92	100.00	4.08	-
April, . . . . .	96.32	99.39	3.68	0.61
May, . . . . .	98.03	98.99	1.97	1.01
June, . . . . .	98.24	94.28	1.76	5.72
July, . . . . .	98.01	84.71	1.99	15.29
August, . . . . .	99.95	80.74	0.05	19.26
September, . . . . .	100.00	80.31	-	19.69
October, . . . . .	99.32	80.42	0.68	19.58
November, . . . . .	97.00	79.08	3.00	20.92
December, . . . . .	96.30	80.38	3.70	19.62
<i>Carpetings.</i>				
January, . . . . .	95.09	98.58	4.91	1.42
February, . . . . .	96.10	99.18	3.90	0.82
March, . . . . .	96.81	99.50	3.19	0.50
April, . . . . .	95.60	99.16	4.40	0.84
May, . . . . .	95.15	99.12	4.85	0.88
June, . . . . .	97.41	100.00	2.59	-
July, . . . . .	99.22	98.48	0.78	1.52
August, . . . . .	97.53	73.37	2.47	26.63
September, . . . . .	98.77	37.35	1.23	62.65
October, . . . . .	100.00	71.95	-	28.05
November, . . . . .	94.94	82.73	5.06	17.27
December, . . . . .	94.80	82.89	5.20	17.11
<i>Cotton Goods.</i>				
January, . . . . .	98.09	98.40	1.91	1.60
February, . . . . .	99.44	98.67	0.56	1.33
March, . . . . .	99.58	97.66	0.42	2.34
April, . . . . .	99.81	99.87	0.19	0.13
May, . . . . .	99.61	100.00	0.39	-
June, . . . . .	98.94	99.57	1.06	0.43
July, . . . . .	98.53	99.25	1.47	0.75
August, . . . . .	98.48	84.74	1.52	15.26
September, . . . . .	98.67	77.80	1.33	22.20
October, . . . . .	98.93	94.33	1.07	5.67
November, . . . . .	99.40	95.49	0.60	4.51
December, . . . . .	100.00	95.06	-	4.94
<i>Leather.</i>				
January, . . . . .	87.44	97.87	12.56	2.13
February, . . . . .	90.13	98.40	9.87	1.60
March, . . . . .	94.05	99.80	5.95	0.20
April, . . . . .	93.90	100.00	6.10	-
May, . . . . .	94.59	96.23	5.41	3.77
June, . . . . .	94.79	89.88	5.21	10.12
July, . . . . .	95.06	76.80	4.94	23.20
August, . . . . .	93.64	65.79	6.36	34.21
September, . . . . .	93.23	64.68	6.77	35.32

INDUSTRIES, AND MONTHS.	PERCENTAGES OF EMPLOYMENT DURING THE MONTHS SPECIFIED		PERCENTAGES OF UNEMPLOYMENT DURING THE MONTHS SPECIFIED	
	1892	1893	1892	1893
<i>Leather — Con.</i>				
October, . . . . .	94.60	70.18	5.31	29.82
November, . . . . .	98.09	71.52	1.91	28.48
December, . . . . .	100.00	77.69	-	22.31
<i>Machines and Machinery.</i>				
January, . . . . .	91.85	98.00	8.15	2.00
February, . . . . .	91.71	98.58	8.29	1.42
March, . . . . .	91.15	100.00	8.85	-
April, . . . . .	92.93	97.56	7.07	2.44
May, . . . . .	92.33	97.52	7.67	2.48
June, . . . . .	92.78	94.79	7.22	5.21
July, . . . . .	94.26	91.95	5.74	8.05
August, . . . . .	96.14	84.49	3.86	15.51
September, . . . . .	96.74	78.73	3.26	21.27
October, . . . . .	98.08	77.08	1.92	22.92
November, . . . . .	99.55	75.04	0.45	24.96
December, . . . . .	100.00	74.22	-	25.78
<i>Metals and Metallic Goods.</i>				
January, . . . . .	92.60	97.73	7.40	2.27
February, . . . . .	93.02	97.83	6.98	2.17
March, . . . . .	93.50	99.01	6.50	0.99
April, . . . . .	94.13	100.00	5.87	-
May, . . . . .	95.33	99.92	4.67	0.08
June, . . . . .	95.17	98.20	4.83	1.80
July, . . . . .	93.36	89.49	6.64	10.51
August, . . . . .	94.85	86.30	5.15	13.70
September, . . . . .	98.52	83.10	1.48	16.90
October, . . . . .	100.00	86.13	-	13.87
November, . . . . .	99.31	85.25	0.69	14.75
December, . . . . .	99.77	83.56	0.23	16.44
<i>Paper and Paper Goods.</i>				
January, . . . . .	94.62	98.22	5.38	1.78
February, . . . . .	95.43	98.91	4.57	1.09
March, . . . . .	97.14	99.90	2.86	0.10
April, . . . . .	97.58	100.00	2.42	-
May, . . . . .	97.68	98.62	2.32	1.38
June, . . . . .	98.29	97.76	1.71	2.24
July, . . . . .	98.31	94.96	1.69	5.04
August, . . . . .	97.17	88.89	2.83	11.11
September, . . . . .	98.24	86.00	1.76	14.00
October, . . . . .	100.00	86.83	-	13.17
November, . . . . .	99.78	87.98	0.22	12.02
December, . . . . .	99.77	89.33	0.23	10.67
<i>Woollen Goods.</i>				
January, . . . . .	96.87	96.47	3.13	3.53
February, . . . . .	97.58	99.31	2.42	0.69
March, . . . . .	98.90	100.00	1.10	-
April, . . . . .	99.32	99.83	0.68	0.17

INDUSTRIES, AND MONTHS.	PERCENTAGES OF EMPLOYMENT DURING THE MONTHS SPECIFIED		PERCENTAGES OF UNEMPLOYMENT DURING THE MONTHS SPECIFIED	
	1892	1893	1892	1893
<i>Woollen Goods — Con.</i>				
May, . . . . .	99.12	99.64	0.88	0.36
June, . . . . .	98.67	96.55	1.33	3.45
July, . . . . .	93.36	88.63	6.64	11.37
August, . . . . .	94.14	77.77	5.86	22.23
September, . . . . .	99.24	69.13	0.76	30.87
October, . . . . .	99.92	76.18	0.08	23.82
November, . . . . .	100.00	75.85	-	24.15
December, . . . . .	98.30	82.05	1.70	17.95
<i>Worsted Goods.</i>				
January, . . . . .	90.68	97.02	9.32	2.98
February, . . . . .	90.76	97.64	9.24	2.36
March, . . . . .	92.29	99.37	7.71	0.63
April, . . . . .	92.21	99.70	7.79	0.30
May, . . . . .	92.52	100.00	7.48	-
June, . . . . .	94.07	98.44	5.93	1.56
July, . . . . .	95.33	96.07	4.67	3.93
August, . . . . .	97.85	76.31	2.15	23.69
September, . . . . .	97.99	71.75	2.01	28.25
October, . . . . .	98.68	82.18	1.32	17.82
November, . . . . .	99.62	81.24	0.38	18.76
December, . . . . .	100.00	87.43	-	12.57
<i>ALL INDUSTRIES.</i>				
January, . . . . .	95.55	97.39	4.45	2.61
February, . . . . .	97.02	98.02	2.98	1.98
March, . . . . .	97.93	99.99	2.07	0.91
April, . . . . .	98.99	100.00	1.01	-
May, . . . . .	98.90	99.63	1.10	0.37
June, . . . . .	98.26	97.08	1.74	2.92
July, . . . . .	97.15	91.68	2.85	8.32
August, . . . . .	97.62	82.51	2.38	17.49
September, . . . . .	99.05	77.67	0.95	22.33
October, . . . . .	99.93	84.73	0.07	15.27
November, . . . . .	100.00	84.86	-	15.14
December, . . . . .	99.76	85.22	0.24	14.78

Considering the section devoted to All Industries, in the above table, the number of persons employed in November in 1892 (this being the month of employment of the greatest number in that year) is considered 100 per cent; and the number of persons employed in April in 1893 (this being the month in which the greatest number of persons was employed in that year) is also considered 100 per cent. The percentages of unemployment during the other months are obtained by finding the difference between the percentages of employment appearing each month and 100 per cent. For instance, the

smallest number of persons employed in any month in 1892 was found in the month of January; the number employed in the month of November, as has been explained, constituted 100 per cent; the number employed in the month of January is represented by 95.55 per cent; the percentage of unemployment being the difference between 95.55 and 100 per cent, or 4.45 per cent. On the other hand, the smallest number of persons employed in any single month in 1893 is found in September, the percentage indicating this smallest number being 77.67; the difference between this and 100, namely, 22.33, indicates the percentage of unemployment in that month.

These percentages strikingly illustrate the force of the industrial depression of 1893, and mark the abnormal condition which during the last months of the year affected our industries as compared with the previous year. Let us bear in mind that the base of these percentages of unemployment in each industry is the largest number of persons found employed in any month of the year under consideration. That is, this largest number is considered as the maximum number of employes in the industry. In Boots and Shoes, in 1892, the largest number of persons was employed in the month of September. In the month of January, in that year, 7.35 per cent of this maximum number were out of employment, this being the highest percentage of unemployment reached in that year. On the other hand, in 1893 prior to July, the highest percentage of unemployment is but 5.72, found in the month of June. But in July 15.29 per cent of the maximum number employed in 1893 are found out of employment, and during the remaining months of the year this percentage never falls below 19.26, while in November it rises to 20.92. These high percentages, so long continued, indicate an amount of unemployment in this industry at once abnormal and exceedingly severe in its effect. Substantially the same general condition is to be noted in each of the leading industries. In some of them the percentage of unemployment, frequently less than in Boots and Shoes, has during the last months of 1893 been considerably greater than in that industry.

Take Carpetings as an illustration. In this industry in 1892 the percentage of persons out of employment never rose above 5.20, while during the first half of 1893 employment was very uniform, the maximum appearing in June, and the percentage

of unemployment never rising above 1.52, which is found in the month of July. In August, however, 26.63 per cent of the number reported in June were unemployed. In September, the percentage rose to 62.65, nearly two-thirds of the whole number on the rolls in June, falling back to 28.05 in October and to 17.27 and 17.11, in the months of November and December, respectively.

In Cotton Goods, employment has been found to be remarkably uniform under normal conditions. Seasonal disturbances in this industry are much less marked than in Boots and Shoes. During 1892 the percentage of unemployment did not rise above 1.91, while during six months of that year unemployment did not reach one per cent of the maximum number on the rolls, as returned for the month of December. In March, 1893, the percentage of unemployment was 2.34, but in no other month prior to August did it exceed 1.60; while for four months unemployment did not reach one per cent. In August, however, it rose to 15.26; increasing to 22.20 in September. After September, employment in this industry, unlike any other industry of the selected nine, and unlike the condition obtaining in All Industries considered together, showed a marked improvement, the percentage of unemployment being but 5.67 in October, and but 4.51 and 4.94 in November and December, respectively, indicating an extent of unemployment, which, although large for this industry, as compared with normal conditions, was small considering the unusual industrial depression.

The reader will find it interesting to make similar comparisons for the other industries in this table. It is not necessary to aid him further, except to point out that, considering All Industries represented in these returns, while the number of persons unemployed did not rise above 4.45 per cent of the maximum number on the rolls in 1892, and, except in the single month of January, did not rise above 2.98, continuing at less than one per cent during four consecutive months; and that while during the first six months of 1893 the number unemployed did not exceed 2.92 per cent of the maximum number on the rolls in that year, it rose to 17.49 per cent in August, increased to 22.33 per cent in September, dropped to 15.27 and 15.14 in October and November, respectively, but did not fall below 14.78, the percentage of unemployment found in the month of December. That is, after the close of



July, the number of persons unemployed in All Industries, in the aggregate, continued to be nearly one-sixth of the maximum number on the rolls as returned in April, and in September was nearly one-fourth the maximum number.\*

### RELATIVE PROPORTIONS OF THE SEXES.

The statistical presentations, pages 37 to 48, show the smallest, greatest, and average number of persons employed, and also the range of employment and unemployment as indicated by the excess of greatest over smallest number of persons employed.

For the purpose of showing the relative proportions of the sexes, by percentages, employed in the different industries, the following table is introduced:

INDUSTRIES.	PERCENTAGES					
	NUMBER OF PERSONS EMPLOYED DURING THE YEAR: BY SEX					
	1885		1892		1893	
	Males	Females	Males	Females	Males	Females
Agricultural implements, . . . . .	100.00	-	100.00	-	100.00	-
Arms and ammunition, . . . . .	92.16	7.84	91.99	8.01	91.19	8.81
Artisans' tools, . . . . .	96.69	3.31	96.57	3.43	96.81	3.19
Awnings, sails, tents, etc., . . . . .	51.14	48.86	79.80	20.20	82.45	17.55
Boots and shoes, . . . . .	69.46	30.54	70.17	29.83	69.47	30.53
Boxes (paper and wooden), . . . . .	55.62	44.38	58.24	41.76	58.27	41.73
Brick, tiles, and sewer pipe, . . . . .	99.09	0.91	99.75	0.25	99.65	0.35
Brooms, brushes, and mops, . . . . .	62.32	37.68	51.34	48.66	51.55	48.45
Burial cases, caskets, coffins, etc., . . . . .	85.51	14.49	84.96	15.04	88.03	11.97
Buttons and dress trimmings, . . . . .	30.15	69.85	31.34	68.66	37.06	62.94
Carpetings, . . . . .	42.12	57.88	45.82	54.18	44.91	55.09
Carriages and wagons, . . . . .	98.71	1.29	99.83	0.17	99.73	0.27
Cement, kaolin, lime, and plaster, . . . . .	100.00	-	100.00	-	100.00	-
Chemical preparations (compounded), . . . . .	97.89	2.11	98.94	1.06	99.67	0.33
Clocks, watches, and jewelry, . . . . .	60.66	39.34	73.91	26.09	74.45	25.55
Clothing, . . . . .	28.25	71.75	31.94	68.06	28.91	71.09
Cooking, lighting, and heating apparatus, . . . . .	98.68	1.32	100.00	-	100.00	-
Cordage and twine, . . . . .	53.21	46.79	58.87	41.13	58.46	41.54
Corks, bungs, and taps, . . . . .	63.29	36.71	86.79	13.21	80.83	19.17
Cotton goods, . . . . .	44.96	55.04	47.80	52.20	48.23	51.77
Cotton, woollen, and other textiles, . . . . .	50.54	49.46	47.17	52.83	46.62	53.38
Crayons, pencils, crucibles, etc., . . . . .	85.11	14.89	100.00	-	100.00	-
Drugs and medicines, . . . . .	71.17	28.83	52.77	47.23	53.84	46.16
Dyestuffs, . . . . .	96.20	3.80	99.69	0.31	99.03	0.97
Earthen, plaster, and stone ware, . . . . .	92.57	7.43	89.89	10.11	89.00	11.00
Electrical apparatus and appliances, . . . . .	98.74	1.26	90.65	9.35	92.55	7.45
Electroplating, . . . . .	97.12	2.88	95.70	4.30	93.64	6.36

\* The question of Unemployment in Massachusetts, together with methods of dealing with the unemployed under various plans in operation abroad, is considered at length in a special report on the subject forming Part I. of the Report of the Bureau of Statistics of Labor for the year 1893.



INDUSTRIES.	PERCENTAGES					
	NUMBER OF PERSONS EMPLOYED DURING THE					
	YEAR: BY SEX					
	1885		1892		1893	
	Males	Females	Males	Females	Males	Females
Emery and sand paper and cloth, etc., . . . . .	93.69	6.31	96.48	3.52	96.44	3.56
Fancy articles, etc., . . . . .	49.09	50.91	29.48	70.52	28.63	71.37
Fertilizers, . . . . .	99.38	0.62	100.00	-	100.00	-
Fine arts and taxidermy, . . . . .	77.78	22.22	77.37	22.63	86.81	13.19
Flax, hemp, jute, and linen goods, . . . . .	51.57	48.43	53.78	46.22	51.67	48.33
Food preparations, . . . . .	82.28	17.72	77.64	22.36	78.38	21.62
Furniture, . . . . .	91.00	9.00	89.67	10.33	89.06	10.94
Glass, . . . . .	88.70	11.30	93.76	6.24	94.13	5.87
Glue, isinglass, and starch, . . . . .	96.13	3.87	90.04	9.96	90.79	9.21
Hair work (animal and human), . . . . .	38.94	61.06	47.77	52.23	48.24	51.76
Hose: rubber, linen, etc., . . . . .	78.18	21.82	81.46	18.54	83.55	16.45
Hosiery and knit goods, . . . . .	29.13	70.87	27.50	72.50	27.25	72.75
Ink, mucilage, and paste, . . . . .	82.26	17.74	56.63	43.31	58.10	41.90
Ivory, bone, shell, and horn goods, etc., . . . . .	91.09	8.91	88.75	11.25	88.96	11.04
Leather, . . . . .	97.85	2.15	96.89	3.11	96.95	3.05
Liquors and beverages (not spirituous), . . . . .	96.74	3.26	99.87	0.13	100.00	-
Liquors: malt, distilled, and fermented, . . . . .	99.61	0.39	99.94	0.06	99.95	0.05
Lumber, . . . . .	99.74	0.26	98.69	1.31	98.96	1.04
Machines and machinery, . . . . .	98.57	1.43	98.57	1.43	98.55	1.45
Metals and metallic goods, . . . . .	90.95	9.05	89.61	10.39	90.41	9.59
Mixed textiles, . . . . .	54.67	45.33	70.63	29.37	72.38	27.62
Models, lasts, and patterns, . . . . .	91.02	8.98	100.00	-	99.90	0.10
Musical instruments and materials, . . . . .	98.10	1.90	96.55	3.45	96.73	3.27
Oils and illuminating fluids, . . . . .	96.83	3.17	84.49	15.51	90.93	9.07
Paints, colors, and crude chemicals, . . . . .	97.31	2.69	96.79	3.21	96.71	3.29
Paper and paper goods, . . . . .	56.08	43.92	54.07	45.93	54.79	45.21
Perfumes, toilet articles, etc., . . . . .	51.06	48.94	37.99	62.01	40.89	59.11
Photographs and photographic materials, . . . . .	56.89	43.11	58.28	41.72	59.21	40.79
Polishes and dressing, . . . . .	64.81	35.19	53.98	46.02	53.42	46.58
Printing, publishing, and bookbinding, . . . . .	72.40	27.60	69.72	30.28	69.58	30.42
Print works, dye works, and bleacheries, . . . . .	65.17	34.83	78.40	21.60	78.86	21.14
Railroad construction and equipment, . . . . .	99.22	0.78	100.00	-	99.32	0.68
Rubber and elastic goods, . . . . .	58.22	41.78	55.76	44.24	54.30	45.70
Saddlery and harness, . . . . .	-	-	90.78	9.22	91.92	8.08
Scientific instruments and appliances, . . . . .	82.84	17.16	87.59	12.41	86.87	13.13
Shipbuilding, . . . . .	99.35	0.65	100.00	-	100.00	-
Silk and silk goods, . . . . .	29.73	70.27	30.33	69.67	30.92	69.08
Sporting and athletic goods, . . . . .	85.09	14.91	87.51	12.49	90.94	9.06
Stone, . . . . .	99.93	0.07	100.00	-	100.00	-
Straw and palm leaf goods, . . . . .	36.07	63.93	37.27	62.73	36.93	63.07
Tallow, candles, soap, and grease, . . . . .	93.73	6.27	85.09	14.91	87.39	12.61
Tobacco, snuff, and cigars, . . . . .	69.85	30.15	68.09	31.91	69.80	30.20
Toys and games (children's), . . . . .	82.46	17.54	81.36	18.64	80.99	19.01
Trunks and valises, . . . . .	94.44	5.56	91.70	8.30	91.48	8.52
Whips, lashes, and stocks, . . . . .	64.41	35.59	67.28	32.72	65.64	34.36
Wooden goods, . . . . .	95.31	4.69	97.82	2.18	97.41	2.59
Woollen goods, . . . . .	61.60	38.40	63.06	36.94	63.54	36.46
Worsted goods, . . . . .	42.13	57.87	49.88	50.12	52.36	47.64
ALL INDUSTRIES, . . . . .	67.00	33.00	66.30	33.70	66.31	33.69

This table shows the percentages of males and females in the different industries as determined in the State Census of 1885 and also similar percentages derived from the returns made in 1892 and in 1893. In computing the percentages for the last named years, a total for each year was first obtained by aggregating, for the different industries, the number of persons of each sex employed month by month. In Agricultural Implements and in some other industries no females were employed in one or more of the years considered in the table.

The only industries in which material differences in the relative proportions of the sexes appear, in 1892 and 1893, as compared with the returns of the Census for 1885 are, Awnings, Sails, Tents, etc.; Corks, Bungs, and Taps; Crayons, Pencils, Crucibles, etc.; Drugs and Medicines; Fancy Articles, etc.; Ink, Mucilage, and Paste; Mixed Textiles; Oils and Illuminating Fluids; Perfumes, Toilet Articles, etc.; Polishes and Dressing; and Print Works, Dye Works, and Bleacheries. These industries are, none of them, among the large industries of the State, and some of them include a wide variety of articles brought together under the same industry head by the system of general classification necessarily employed in the Census. This accounts for the difference in the relative proportions of the sexes observed in the table, inasmuch as the returns in the Census include all establishments classed under the industry head, while the returns in 1892 and 1893 include only the more important establishments. It will be noticed that a statement of persons employed in 1885 does not occur against the industry Saddlery and Harness; this is owing to the fact that this industry was not separately presented in that year, the returns having been included under the general classification of Leather.

The percentages derived from the Census of 1885 have no particular bearing upon the different elements embodied in the returns for 1892 and 1893, and are simply introduced here for purposes of comparison. The other percentages, however, should be considered in connection with the subject of wages, since a large proportion of female employes in any industry affects the average rate of wages, and frequently accounts for a low average wage prevailing in certain industries as compared with others. A comparison of the percentages for the years

1892 and 1893, as they are obtained from returns made by the same establishments in each year, will indicate the changes that have taken place in the relative proportions of the sexes. These changes are shown graphically in the following table, in which increase in percentages of females employed is indicated by the sign (+) and decrease by the sign (—) :

INDUSTRIES.	INCREASE (+), OR DECREASE (—), IN PERCENTAGES OF FEMALES EMPLOYED IN —		
	1892 as Com- pared with 1885	1893 as Com- pared with 1885	1893 as Com- pared with 1892
Agricultural implements, . . . . .	*	*	*
Arms and ammunition, . . . . .	+	+	+
Artisans' tools, . . . . .	+	—	—
Awnings, sails, tents, etc., . . . . .	—	—	—
Boots and shoes, . . . . .	—	—	+
Boxes (paper and wooden), . . . . .	—	—	—
Brick, tiles, and sewer pipe, . . . . .	—	—	+
Brooms, brushes, and mops, . . . . .	+	+	—
Burial cases, caskets, coffins, etc., . . . . .	+	—	—
Buttons and dress trimmings, . . . . .	—	—	—
Carpetings, . . . . .	—	—	+
Carriages and wagons, . . . . .	—	—	+
Cement, kaolin, lime, and plaster, . . . . .	*	*	*
Chemical preparations (compounded), . . . . .	—	—	—
Clocks, watches, and jewelry, . . . . .	—	—	—
Clothing, . . . . .	—	—	+
Cooking, lighting, and heating apparatus, . . . . .	—	—	*
Cordage and twine, . . . . .	—	—	+
Corks, bungs, and taps, . . . . .	—	—	+
Cotton goods, . . . . .	—	—	—
Cotton, woollen, and other textiles, . . . . .	+	+	+
Crayons, pencils, crucibles, etc., . . . . .	—	—	*
Drugs and medicines, . . . . .	+	+	—
Dyestuffs, . . . . .	—	—	+
Earthen, plaster, and stone ware, . . . . .	+	+	+
Electrical apparatus and appliances, . . . . .	+	+	—
Electroplating, . . . . .	+	+	+
Emery and sand paper and cloth, etc., . . . . .	—	—	+
Fancy articles, etc., . . . . .	+	+	+
Fertilizers, . . . . .	—	—	*
Fine arts and taxidermy, . . . . .	+	—	—
Flax, hemp, jute, and linen goods, . . . . .	—	—	+
Food preparations, . . . . .	+	+	—
Furniture, . . . . .	+	+	+
Glass, . . . . .	—	—	—
Gluc, isinglass, and starch, . . . . .	+	+	—
Hair work (animal and human), . . . . .	—	—	—
Hose: rubber, linen, etc., . . . . .	—	—	—
Hosiery and knit goods, . . . . .	+	+	+
Ink, mucilage, and paste, . . . . .	+	+	—

\* No females employed.

INDUSTRIES.	INCREASE (+), OR DECREASE (-), IN PERCENTAGES OF FEMALES EMPLOYED IN—		
	1892 as Com- pared with 1885	1893 as Com- pared with 1885	1893 as Com- pared with 1892
Ivory, bone, shell, and horn goods, etc., . . .	+	+	—
Leather, . . . . .	+	+	—
Liquors and beverages (not spirituous), . . .	—	—	—
Liquors; malt, distilled, and fermented, . . .	—	—	—
Lumber, . . . . .	+	+	—
Machines and machinery, . . . . .	=	+	+
Metals and metallic goods, . . . . .	+	+	—
Mixed textiles, . . . . .	—	—	—
Models, lasts, and patterns, . . . . .	—	—	+
Musical instruments and materials, . . . . .	+	+	—
Oils and illuminating fluids, . . . . .	+	+	—
Paints, colors, and crude chemicals, . . . . .	+	+	+
Paper and paper goods, . . . . .	+	+	—
Perfumes, toilet articles, etc., . . . . .	+	+	—
Photographs and photographic materials, . . . . .	—	—	—
Polishes and dressing, . . . . .	+	+	+
Printing, publishing, and bookbinding, . . . . .	+	+	+
Print works, dye works, and bleacheries, . . . . .	—	—	—
Railroad construction and equipment, . . . . .	—	—	+
Rubber and elastic goods, . . . . .	+	+	+
Saddlery and harness, . . . . .	+	+	—
Scientific instruments and appliances, . . . . .	—	—	+
Shipbuilding, . . . . .	—	—	†
Silk and silk goods, . . . . .	—	—	—
Sporting and athletic goods, . . . . .	—	—	—
Stone, . . . . .	—	—	†
Straw and palm leaf goods, . . . . .	—	—	+
Tallow, candles, soap, and grease, . . . . .	+	+	—
Tobacco, snuff, and cigars, . . . . .	+	+	—
Toys and games (children's), . . . . .	+	+	+
Trunks and valises, . . . . .	+	+	+
Whips, lashes, and stocks, . . . . .	—	—	+
Wooden goods, . . . . .	—	—	+
Woollen goods, . . . . .	—	—	—
Worsted goods, . . . . .	—	—	—
ALL INDUSTRIES, . . . . .	+	+	—

\* No change in percentage of females employed.

† No females employed.

The following industries, 30 in number, show an increase in the percentage of females employed in 1893 as compared with 1892:

Arms and Ammunition.  
Boots and Shoes.  
Brick, Tiles, and Sewer Pipe.  
Carpetings.

Carriages and Wagons.  
Clothing.  
Cordage and Twine.  
Corks, Bungs, and Taps.



Cotton, Woollen, and Other Textiles.	Polishes and Dressing.
Dyestuffs.	Printing, Publishing, and Bookbinding.
Earthen, Plaster, and Stone Ware.	Railroad Construction and Equipment.
Electroplating.	Rubber and Elastic Goods.
Emery and Sand Paper and Cloth, etc.	Scientific Instruments and Appliances.
Fancy Articles, etc.	Straw and Palm Leaf Goods.
Flax, Hemp, Jute, and Linen Goods.	Toys and Games (Children's).
Furniture.	Trunks and Valises.
Hosiery and Knit Goods.	Whips, Lashes, and Stocks.
Machines and Machinery.	Wooden Goods.
Models, Lasts, and Patterns.	
Paints, Colors, and Crude Chemicals.	

The following industries, 38 in number, show a decrease in the percentage of females employed in 1893 as compared with 1892 :

Artisans' Tools.	Liquors and Beverages (Not Spirituous).
Awnings, Sails, Tents, etc.	Liquors: Malt, Distilled, and Fermented.
Boxes (Paper and Wooden).	Lumber.
Brooms, Brushes, and Mops.	Metals and Metallic Goods.
Burial Cases, Caskets, Coffins, etc.	Mixed Textiles.
Buttons and Dress Trimmings.	Musical Instruments and Materials.
Chemical Preparations (Compound-ed).	Oils and Illuminating Fluid.
Clocks, Watches, and Jewelry.	Paper and Paper Goods.
Cotton Goods.	Perfumes, Toilet Articles, etc.
Drugs and Medicines.	Photographs and Photographic Materials.
Electrical Apparatus and Appliances.	Print Works, Dye Works, and Bleacheries.
Fine Arts and Taxidermy.	Saddlery and Harness.
Food Preparations.	Silk and Silk Goods.
Glass.	Sporting and Athletic Goods.
Glue, Isinglass, and Starch.	Tallow, Candles, Soap, and Grease.
Hair Work (Animal and Human).	Tobacco, Snuff, and Cigars.
Hose: Rubber, Linen, etc.	Woollen Goods.
Ink, Mucilage, and Paste.	Worsted Goods.
Ivory, Bone, Shell, and Horn Goods, etc.	
Leather.	

In 1892 and 1893 males only were employed in Agricultural Implements; Cement, Kaolin, Lime, and Plaster; Cooking, Lighting, and Heating Apparatus; Crayons, Pencils, Crucibles, etc.; Fertilizers; Shipbuilding; and Stone. In two industries, Models, Lasts, and Patterns and Railroad Construction and Equipment, no females were employed in 1892; but a small percentage of female employes is shown in 1893,

this percentage in the first named industry being 0.10, and in the second 0.68. In 1893 the percentage of female employ  s decreased in each of the leading textile industries: Cotton Goods, Woollen Goods, and Worsted Goods, the variation being 0.43, 0.48, and 2.48 respectively.

	INDUSTRIES.	Whole Number of Establishments Considered
1	Agricultural implements, . . . . .	11
2	Arms and ammunition, . . . . .	13
3	Artisans' tools, . . . . .	65
4	Awnings, sails, tents, etc., . . . . .	39
5	Boots and shoes, . . . . .	712
6	Boxes (paper and wooden), . . . . .	136
7	Brick, tiles, and sewer pipe, . . . . .	49
8	Brooms, brushes, and mops, . . . . .	21
9	Burial cases, caskets, coffins, etc., . . . . .	6
10	Buttons and dress trimmings, . . . . .	19
11	Carpetings, . . . . .	11
12	Carriages and wagons, . . . . .	132
13	Cement, kaolin, lime, and plaster, . . . . .	7
14	Chemical preparations (compounded), . . . . .	10
15	Clocks, watches, and jewelry, . . . . .	97
16	Clothing, . . . . .	135
17	Cooking, lighting, and heating apparatus, . . . . .	36
18	Cordage and twine, . . . . .	27
19	Corks, bungs, and taps, . . . . .	3
20	Cotton goods, . . . . .	149
21	Cotton, woollen, and other textiles, . . . . .	3
22	Crayons, pencils, crucibles, etc., . . . . .	3
23	Drugs and medicines, . . . . .	23
24	Dyestuffs, . . . . .	5
25	Earthen, plaster, and stone ware, . . . . .	7
26	Electrical apparatus and appliances, . . . . .	15
27	Electroplating, . . . . .	9
28	Emery and sand paper and cloth, etc., . . . . .	10
29	Fancy articles, etc., . . . . .	5
30	Fertilizers, . . . . .	5
31	Fine arts and taxidermy, . . . . .	3
32	Flax, hemp, jute, and linen goods, . . . . .	7
33	Food preparations, . . . . .	300
34	Furniture, . . . . .	121
35	Glass, . . . . .	8
36	Glue, isinglass, and starch, . . . . .	18
37	Hair work (animal and human), . . . . .	9
38	Hose: rubber, linen, etc., . . . . .	3
39	Hosiery and knit goods, . . . . .	42
40	Ink, mucilage, and paste, . . . . .	9
41	Ivory, bone, shell, and horn goods, etc., . . . . .	10
42	Leather, . . . . .	148



In some of the industries certain establishments reported the same number of persons employed during the entire year. The statistics upon this point are brought forward in the following table from the Industry Presentations, pages 61 to 274:

1892				1893			
Number of Establishments Reporting the Same Number of Persons Employed During the Entire Year	NUMBER OF PERSONS EMPLOYED DURING THE ENTIRE YEAR			Number of Establishments Reporting the Same Number of Persons Employed During the Entire Year	NUMBER OF PERSONS EMPLOYED DURING THE ENTIRE YEAR		
	Males	Females	Total		Males	Females	Total
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
20	127	2	129	11	42	-	42
5	27	11	38	2	17	10	27
204	6,319	2,647	8,966	100	2,591	1,105	3,696
26	256	296	552	19	208	169	377
3	94	-	94	2	38	-	38
8	259	198	457	6	251	196	447
4	136	25	161	3	33	4	37
4	18	27	45	-	-	-	-
-	-	-	-	1	12	-	12
23	297	-	297	14	117	-	117
5	13	-	13	3	8	-	8
5	28	-	28	6	13	1	14
21	343	108	451	12	201	112	313
40	714	1,352	2,066	24	266	309	575
5	365	-	365	3	82	-	82
4	23	46	69	1	1	-	1
1	15	-	15	-	-	-	-
37	8,906	8,452	17,358	20	5,561	5,318	10,879
-	-	-	-	-	-	-	-
1	12	-	12	1	12	-	12
8	29	18	47	10	39	19	58
-	-	-	-	-	-	-	-
2	83	14	97	-	-	-	-
4	52	1	53	3	24	-	24
4	16	-	16	2	5	-	5
3	60	-	60	-	-	-	-
2	13	43	56	-	-	-	-
1	13	-	13	2	8	-	8
-	-	-	-	-	-	-	-
1	6	2	8	-	-	-	-
129	744	111	855	123	712	135	847
30	683	53	736	18	350	5	355
-	-	-	-	1	18	-	18
1	7	-	7	1	6	-	6
4	3	31	34	3	2	8	10
-	-	-	-	-	-	-	-
2	5	53	58	4	14	16	30
5	11	1	12	5	13	1	14
1	2	2	4	1	2	2	4
27	474	1	475	7	117	1	118

	INDUSTRIES.	Whole Number of Establishments Considered
1	Liquors and beverages (not spirituous), . . . . .	23
2	Liquors: malt, distilled, and fermented, . . . . .	53
3	Lumber, . . . . .	21
4	Machines and machinery, . . . . .	335
5	Metals and metallic goods, . . . . .	341
6	Mixed textiles, . . . . .	13
7	Models, lasts, and patterns, . . . . .	46
8	Musical instruments and materials, . . . . .	54
9	Oils and illuminating fluids, . . . . .	10
10	Paints, colors, and crude chemicals, . . . . .	20
11	Paper and paper goods, . . . . .	98
12	Perfumes, toilet articles, etc., . . . . .	5
13	Photographs and photographic materials, . . . . .	17
14	Polishes and dressing, . . . . .	29
15	Printing, publishing, and bookbinding, . . . . .	34
16	Print works, dye works, and bleacheries, . . . . .	44
17	Railroad construction and equipment, . . . . .	14
18	Rubber and elastic goods, . . . . .	34
19	Saddlery and harness, . . . . .	33
20	Scientific instruments and appliances, . . . . .	15
21	Shipbuilding, . . . . .	56
22	Silk and silk goods, . . . . .	12
23	Sporting and athletic goods, . . . . .	7
24	Stone, . . . . .	175
25	Straw and palm leaf goods, . . . . .	20
26	Tallow, candles, soap, and grease, . . . . .	62
27	Tobacco, snuff, and cigars, . . . . .	42
28	Toys and games (children's), . . . . .	8
29	Trunks and valises, . . . . .	7
30	Whips, lashes, and stocks, . . . . .	10
31	Wooden goods, . . . . .	168
32	Woollen goods, . . . . .	125
33	Worsted goods, . . . . .	20
34	ALL INDUSTRIES, . . . . .	4,397

The final line of the table relates to All Industries. Of the 4,397 establishments making return, 1,087, or 24.72 per cent, in 1892, and 702, or 15.97 per cent, in 1893 reported that the same number of persons was employed by them throughout the year; that is to say, the number did not vary from month to month, or, more properly speaking, that while precisely the same individuals may not have been employed during the entire year, the number of persons continuously employed was kept up to a certain figure, implying that if any were discharged or gave up their places others were substituted in the places

1892				1893				
Number of Establishments Reporting the Same Number of Persons Employed during the Entire Year	NUMBER OF PERSONS EMPLOYED DURING THE ENTIRE YEAR			Number of Establishments Reporting the Same Number of Persons Employed During the Entire Year	NUMBER OF PERSONS EMPLOYED DURING THE ENTIRE YEAR			
	Males	Females	Total		Males	Females	Total	
4	15	-	15	3	10	-	10	1
12	240	-	240	12	195	-	195	2
3	19	-	19	2	74	-	74	3
73	1,080	51	1,131	35	506	3	509	4
83	1,751	325	2,076	63	1,420	230	1,650	5
3	129	10	139	2	119	12	131	6
15	134	-	134	5	55	-	55	7
16	1,040	8	1,048	13	624	8	632	8
2	17	3	20	2	20	1	21	9
8	45	-	45	7	46	-	46	10
20	912	622	1,534	7	303	148	451	11
2	5	12	17	2	5	9	14	12
8	15	11	26	7	13	10	23	13
13	67	9	76	13	62	7	69	14
9	191	89	280	7	70	32	102	15
6	31	17	48	5	23	18	46	16
-	-	-	-	-	-	-	-	17
7	117	263	380	2	31	-	31	18
22	83	5	93	17	52	-	52	19
4	7	2	9	4	7	2	9	20
10	74	-	74	7	33	-	38	21
2	10	43	53	-	-	-	-	22
3	87	24	111	1	2	-	2	23
14	298	-	298	13	386	-	386	24
-	-	-	-	-	-	-	-	25
26	94	4	98	24	89	1	90	26
5	34	13	47	4	13	1	14	27
-	-	-	-	-	-	-	-	28
4	30	-	30	2	13	-	13	29
3	32	17	49	1	4	2	6	30
42	387	-	387	24	164	-	164	31
23	1,154	790	1,944	10	634	343	982	32
-	-	-	-	-	-	-	-	33
1,087	28,256	15,812	44,068	702	15,746	8,243	23,989	34

thus made vacant. The number of establishments reporting the same number of persons employed decreased in 1893, as compared with 1892, 385, or 35.42 per cent. The number of persons thus continuously employed during the entire year in these establishments in 1892 was 44,068 and in 1893, 23,989, a decrease in the latter year of 20,079 or 45.56 per cent. These persons constituted 14.39 per cent of the aggregate average number of persons employed in all the establishments making return in 1892 and 8.18 per cent in 1893.

## WAGES PAID: BY INDUSTRIES.

The statistical presentations under this subject comprise two tables, pages 49 to 54. The first table relates to the total amount paid in wages by the 4,397 establishments during the years 1892 and 1893, and the second to the average yearly earnings of each of the employes in these same establishments during the years specified.

## WAGES PAID.

The facts relating to the total amount of wages paid are given on pages 50 and 51. In the following table are brought forward the figures for the nine leading industries:

INDUSTRIES.	Number of Estab- lishments Con- sidered	TOTAL AMOUNT PAID IN WAGES DURING THE YEAR		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Boots and shoes, . . . .	712	\$25,533,508	\$22,618,569	—\$2,914,939	—11.42
Carpetings, . . . . .	11	1,823,229	1,589,019	—234,210	—12.85
Cotton goods, . . . . .	149	25,515,747	25,268,510	—247,237	—0.97
Leather, . . . . .	148	3,003,501	2,748,051	—255,450	—8.51
Machines and machinery, . .	335	10,107,731	9,470,094	—637,637	—6.31
Metals and metallic goods, . .	341	7,424,150	6,726,827	—697,323	—9.39
Paper and paper goods, . . .	98	4,269,230	3,957,802	—311,428	—7.29
Woollen goods, . . . . .	125	6,661,085	5,883,015	—778,070	—11.68
Worsted goods, . . . . .	20	3,321,837	2,202,796	—1,119,041	—33.69
Other industries, . . . . .	2,458	50,312,483	46,821,714	—3,490,769	—6.94
ALL INDUSTRIES, . . . .	4,397	\$137,972,501	\$127,286,397	—\$10,686,104	—7.75

The final line of this table reproduces the figures for All Industries. In the 4,397 establishments making return, the total amount paid in wages during the year 1892 was \$137,972,501 and in 1893, \$127,286,397, a loss of \$10,686,104, or 7.75 per cent. Of the nine leading industries, the greatest percentage of decrease, namely, 33.69 per cent, is found in Worsted Goods; Carpetings comes next with a loss of 12.85 per cent, while next follow Woollen Goods, the loss being 11.68 per cent, and Boots and Shoes, the loss being 11.42 per cent. In Metals and Metallic Goods, Paper and Paper Goods,

and Machines and Machinery, the percentages of loss are 9.39, 7.29, and 6.31, respectively. Cotton Goods shows the slight decrease of but 0.97 per cent. In industries other than the nine mentioned in detail, the aggregate loss was 6.94 per cent. It will be noticed that all the industries in the above list, with the exception of Cotton Goods, Machines and Machinery, and Paper and Paper Goods, show a percentage of decrease greater than that shown for All Industries.

### AVERAGE YEARLY EARNINGS.

The average yearly earnings in the nine leading industries are brought forward in the following table from the presentation on pages 52 and 53, the decrease in 1893 as compared with 1892 being given in amounts and percentages :

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE YEARLY EARNINGS		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Amounts	Percent- ages
Boots and shoes, . . . . .	712	\$522.60	\$498.33	—\$24.27	—4.64
Carpetings, . . . . .	11	387.67	366.56	—21.11	—5.45
Cotton goods, . . . . .	149	345.99	343.60	—2.39	—0.69
Leather, . . . . .	148	507.52	490.55	—16.97	—3.34
Machines and machinery, . . . .	335	562.20	541.30	—20.90	—3.72
Metals and metallic goods, . . .	341	517.15	505.28	—11.87	—2.30
Paper and paper goods, . . . . .	93	423.22	409.80	—13.52	—3.19
Woollen goods, . . . . .	125	389.54	371.00	—18.54	—4.76
Worsted goods, . . . . .	20	369.26	244.08	—125.18	—33.90
Other industries, . . . . .	2,458	481.65	473.16	—8.49	—1.76
ALL INDUSTRIES, . . . . .	4,397	\$450.59	\$434.17	—\$16.42	—3.64

The averages in the above list are obtained by dividing the total amount of wages paid in each industry, as presented in the preceding table, by the aggregate average number of persons employed therein without discrimination as to sex or age. Such an average is, of course, only useful in comparison with averages similarly obtained. The average wage paid in All Industries, as shown by the final line of the table, was \$450.59 in 1892, and \$434.17 in 1893, a decrease of 3.64 per cent. The aggregate amount paid in wages also decreased in each



of the nine leading industries, as shown by the table on page 320.

It will be noticed that the average yearly earnings declined in each of the industries given in detail, and, with the exception of Cotton Goods; Leather; Metals and Metallic Goods; and Paper and Paper Goods, the percentage of decrease was larger than that shown for All Industries. In industries other than the nine specifically mentioned, the aggregate average decrease was 1.76 per cent.

We have each year pointed out that "the apparent increase or decrease in average yearly earnings, while to a certain extent indicative of fluctuations in employment, has but limited significance when considered alone, as many conditions affect these averages." The most important elements that should be considered in connection with such an average are the relative number of males and females, the number of day and piece hands, and the different proportions of adult employes in some industries as compared with others. Besides these, the varying degrees of skill required in different industries affect the average yearly earnings and account for some of the fluctuations observed in them.

On page 304 we presented an estimate showing that if 10 persons were out of employment in each of the 4,397 establishments whose returns are comprehended in this report, such proportion of unemployment would represent 43,970 persons. It would be very interesting to know the duration of unemployment in the year 1893 in the establishments under consideration. The tables by months on page 305 show that the period of unemployment commenced in July, but became very marked in August, and remained so until the end of the year. This would indicate a period of unemployment covering July to December, both inclusive, or six months. But, as the depression affected many industries to a greater or less extent previous to July 1, it is evident that the real duration of the period of unemployment was to some extent in excess of six months during the year 1893.

We are enabled to ascertain the real duration approximately, and very closely, by a comparison of the range of unemployment, indicated by persons unemployed at one time or another



during the year, with the decrease in total wages paid and lower average yearly earnings. The bases used are as follows :

Range of unemployment in 1892, . . . . .	76,836
Range of unemployment in 1893, . . . . .	123,018
Excess in 1893, . . . . .	46,182
Average Yearly Earnings in 1893, . . . . .	\$434.17
Decrease in Total Wages Paid in 1893, . . . . .	\$10,686,104

From the above bases we evolve the following comparative table :

ESTIMATED NUMBER OF PERSONS UNEMPLOYED BASED ON COMPARISONS OF DECREASE IN TOTAL WAGES PAID AND LOWER AVERAGE YEARLY EARNINGS.	Estimated Duration of Unemployment for Number of Employés Specified
59,072 . . . . .	5 months
53,702 . . . . .	5½ months
49,224 . . . . .	6 months
46,182 * . . . . .	6 months and 10 days

\* This figure indicates the increase in range of unemployment in 1893 as compared with 1892. See pages 46 and 47.

To sum up :

The unemployment in the 4,397 manufacturing establishments considered for the year 1893 represented a loss in time employed equivalent to 6 months and 10 days for each of 46,182 employés. It is not to be understood from this statement that each of 46,182 *identical* persons were unemployed during 6 months and 10 days, but simply that the amount of unemployment actually resulting from the industrial depression was economically equivalent to the idleness of this number of persons for the length of time named.

As usual, we present for 1893 a table supplying the necessary data for a comparison of the average yearly earnings with the different proportions of sexes and of day and piece hands employed and with the different proportions of adult employés. In this table, which follows, the percentages of males and females employed are obtained from the returns made in 1893. The percentages of day and piece hands and of the employés of different ages, are derived from the returns secured in the Decennial Census of 1885.

Average Yearly Earnings 1893	INDUSTRIES.	PERCENTAGES					
		PERSONS EMPLOYED		DAY AND PIECE HANDS: BOTH SEXES		AGE PERIODS: BOTH SEXES	
		Males	Fe- males	Day Hands	Piece Hands	Under 21 years	21 years and over
\$733.73	Liquors: malt, distilled, and fermented, . . . . .	99.95	0.05	98.95	1.05	3.41	96.59
682.89	Shipbuilding, . . . . .	100.00	-	95.31	4.69	5.02	94.98
679.90	Models, lasts, and patterns, . . . . .	99.90	0.10	97.60	2.40	10.78	89.22
631.84	Photographs and photographic materials, . . . . .	59.21	40.79	93.37	6.63	16.40	83.60
628.08	Musical instruments and materials, . . . . .	96.73	3.27	46.70	53.30	8.19	91.81
626.59	Cooking, lighting, and heating apparatus, . . . . .	100.00	-	67.22	32.78	7.16	92.84
624.55	Tobacco, snuff, and cigars, . . . . .	69.80	30.20	27.86	72.14	20.07	79.93
615.42	Railroad construction and equipment, . . . . .	99.32	0.68	100.00	-	3.81	96.19
613.48	Carriages and wagons, . . . . .	99.73	0.27	80.55	19.45	7.26	92.74
607.82	Glass, . . . . .	94.13	5.87	96.13	3.87	17.72	82.28
588.17	Fine arts and taxidermy, . . . . .	86.81	13.19	100.00	-	5.55	94.45
581.53	Chemical preparations (compounded), . . . . .	99.67	0.33	100.00	-	5.98	94.02
578.61	Printing, publishing, and bookbinding, . . . . .	69.58	30.42	72.49	27.51	26.49	73.51
571.02	Arms and ammunition, . . . . .	91.19	8.81	75.48	24.52	18.65	81.35
570.20	Awnings, sails, tents, etc., . . . . .	82.45	17.55	93.18	6.82	12.50	87.50
549.56	Trunks and valises, . . . . .	91.48	8.52	99.49	0.51	17.68	82.32
546.04	Liquors and beverages (not spirituous), . . . . .	100.00	-	100.00	-	7.49	92.51
543.23	Burial cases, caskets, coffins, etc., . . . . .	88.03	11.97	74.72	25.28	9.94	90.06
541.30	Machines and machinery, . . . . .	98.55	1.45	93.90	6.10	11.60	88.40
538.53	Stone, . . . . .	100.00	-	70.95	29.05	5.14	94.86
536.29	Wooden goods, . . . . .	97.41	2.59	70.90	29.10	15.28	84.72
531.35	Paints, colors, and crude chemicals, . . . . .	96.71	3.29	100.00	-	5.38	94.62
527.96	Artisans' tools, . . . . .	96.81	3.19	76.51	23.49	9.63	90.37
524.45	Dyestuffs, . . . . .	99.03	0.97	94.57	5.43	4.35	95.65
523.06	Clocks, watches, and jewelry, . . . . .	74.45	25.55	39.44	60.56	14.34	85.66
517.98	Saddlery and harness, . . . . .	91.92	8.08	*	*	*	*
511.69	Agricultural implements, . . . . .	100.00	-	62.48	37.52	8.89	91.11
505.28	Metals and metallic goods, . . . . .	90.41	9.59	73.69	26.31	14.88	85.12
502.78	Electroplating, . . . . .	93.64	6.36	85.61	14.39	20.14	79.86
498.33	Boots and shoes, . . . . .	69.47	30.53	31.06	68.94	14.79	85.21
490.55	Leather, . . . . .	96.95	3.05	78.85	21.15	9.32	90.68
490.48	Polishes and dressing, . . . . .	53.42	46.58	97.91	2.09	10.45	89.55
489.62	Straw and palm leaf goods, . . . . .	36.93	63.07	12.16	87.84	15.30	84.70
489.48	Emery and sand paper and cloth, etc., . . . . .	96.44	3.56	97.57	2.43	10.19	89.81
486.30	Tallow, candles, soap, and grease, . . . . .	87.39	12.61	88.69	11.31	11.85	88.15
483.74	Furniture, . . . . .	89.06	10.94	64.88	35.12	17.28	82.72
480.86	Earthen, plaster, and stone ware, . . . . .	89.00	11.00	77.72	22.28	18.83	81.87
476.76	Oils and illuminating fluids, . . . . .	90.93	9.07	96.60	3.40	6.57	93.43
476.63	Whips, lashes, and stocks, . . . . .	65.64	34.36	49.82	50.18	12.63	87.37
475.93	Sporting and athletic goods, . . . . .	90.94	9.06	48.11	51.89	13.58	86.42
472.25	Food preparations, . . . . .	78.38	21.62	92.40	7.60	14.09	85.91

\* Included in Leather in 1885.

Average Yearly Earnings 1893	INDUSTRIES.	PERCENTAGES					
		PERSONS EMPLOYED		DAY AND PIECE HANDS: BOTH SEXES		AGE PERIODS: BOTH SEXES	
		Males	Fe- males	Day Hands	Piece Hands	Under 21 years	21 years and over
\$465.03	Fertilizers, . . . . .	100.00	-	99.79	0.21	1.66	98.34
463.92	Cement, kaolin, lime, and plaster, .	100.00	-	98.27	1.73	6.94	93.06
463.62	Rubber and elastic goods, . . .	54.30	45.70	50.10	49.90	19.69	80.31
460.67	Brick, tiles, and sewer pipe, . . .	99.65	0.35	96.97	3.03	6.16	93.84
450.76	Glue, isinglass, and starch, . . .	90.79	9.21	98.90	1.10	17.86	82.14
439.72	Electrical apparatus and appliances,	92.55	7.45	96.65	3.35	11.17	88.83
438.59	Lumber, . . . . .	98.96	1.04	93.13	6.87	5.50	94.50
438.50	Crayons, pencils, crucibles, etc., .	100.00	-	70.21	29.79	24.47	75.53
438.22	Ink, mucilage, and paste, . . . .	58.10	41.90	96.77	3.23	40.32	59.68
417.71	Scientific instruments and appliances,	86.87	13.13	74.97	25.03	20.64	79.36
417.49	Print works, dye works, and bleach- eries, . . . . .	78.86	21.14	72.14	27.86	19.30	80.70
411.11	Clothing, . . . . .	28.91	71.09	51.24	48.76	16.94	83.06
409.80	Paper and paper goods, . . . . .	54.79	45.21	74.29	25.71	15.70	84.30
401.31	Ivory, bone, shell, and horn goods, etc., . . . . .	88.96	11.04	71.14	28.86	26.83	73.17
400.41	Perfumes, toilet articles, etc., . .	40.89	59.11	70.21	29.79	19.15	80.85
398.45	Drugs and medicines, . . . . .	53.84	46.16	83.77	16.23	21.82	78.18
396.99	Toys and games (children's), . . .	80.99	19.01	44.00	56.00	30.77	69.23
396.67	Boxes (paper and wooden), . . . .	58.27	41.73	59.51	40.49	24.37	75.63
377.02	Fancy articles, etc., . . . . .	28.63	71.37	62.73	37.27	31.82	68.18
376.10	Hose: rubber, linen, etc., . . . .	83.55	16.45	96.36	3.64	23.64	76.36
374.18	Buttons and dress trimmings, . . .	37.06	62.94	71.77	28.23	22.93	77.07
371.44	Mixed textiles, . . . . .	72.38	27.62	77.78	22.22	24.89	75.11
371.00	Woollen goods, . . . . .	63.54	36.46	60.09	39.91	27.45	72.55
366.56	Carpetings, . . . . .	44.91	55.09	59.70	40.30	32.53	67.47
366.21	Cotton, woollen, and other textiles,	46.62	53.38	60.29	39.71	25.81	74.19
360.45	Brooms, brushes, and mops, . . .	51.55	48.45	64.33	35.67	30.10	69.90
349.91	Cordage and twine, . . . . .	58.46	41.54	86.82	13.18	37.81	62.19
343.60	Cotton goods, . . . . .	48.23	51.77	44.16	55.84	35.89	64.11
343.36	Hair work (animal and human), . .	48.24	51.76	90.87	9.13	26.44	73.56
326.52	Silk and silk goods, . . . . .	30.92	69.08	79.35	20.65	33.96	66.04
320.63	Hosiery and knit goods, . . . . .	27.25	72.75	28.55	71.45	29.81	70.19
303.66	Flax, hemp, jute, and linen goods, .	51.67	48.33	75.31	24.69	43.76	56.24
303.31	Corks, bungs, and taps, . . . . .	80.83	19.17	100.00	-	55.70	44.30
244.08	Worsted goods, . . . . .	52.36	47.64	69.04	30.96	35.59	64.41
\$434.17	ALL INDUSTRIES, . . . . .	66.31	33.69	58.17	41.83	20.49	79.51

The meaning of the foregoing table may be explained by a consideration of its final line. It will be seen that for All Industries the average yearly earnings in 1893 were \$434.17. Of the average number of persons employed, 66.31 per cent were males, and 33.69 per cent females. As explained, these percentages are derived from returns made in 1893. In the

same industries it was shown in the Decennial Census of 1885, that 58.17 per cent were day hands and 41.83 per cent piece hands, and also that 20.49 per cent of the employés were under twenty-one years of age while 79.51 per cent were twenty-one years of age and over. These proportions, in the absence of later returns, may be held to apply to the industries in 1893. In comparing the industries, one with another, as shown in the table, it will be seen that these different elements have an important bearing upon the average yearly earnings, since the highest earnings will, as a rule, be found to prevail in industries employing males chiefly and a large proportion of adults.

### CLASSIFIED WEEKLY WAGES.

Actual wage conditions in the different industries are more accurately seen from the tables presenting classified weekly wages in connection with each industry presentation, pages 61 to 274, than from aggregate or average tables of wages. The following table brings forward such a classified wage presentation with percentages for All Industries :

CLASSIFICATION OF WEEKLY WAGE.	PERCENTAGES			
	1892		1893	
	Males	Females	Males	Females
Under \$5, . . . . .	30.70	69.30	37.73	62.27
\$5 but under \$6, . . . . .	34.14	65.86	35.16	64.84
\$6 but under \$7, . . . . .	45.06	54.94	43.95	56.05
\$7 but under \$8, . . . . .	55.66	44.34	56.63	43.37
\$8 but under \$9, . . . . .	99.66	0.34	63.35	36.65
\$9 but under \$10, . . . . .	79.83	20.17	79.47	20.53
\$10 but under \$12, . . . . .	85.07	14.93	84.95	15.05
\$12 but under \$15, . . . . .	93.73	6.27	93.44	6.56
\$15 but under \$20, . . . . .	96.90	3.10	97.03	2.97
\$20 and over, . . . . .	98.84	1.16	98.99	1.01
TOTALS, . . . . .	66.74	33.26	66.64	33.36

This table indicates that of the operatives receiving less than \$5 per week, 30.70 per cent were males in 1892, and 37.73 per cent in 1893. The proportion of females in this class was 69.30 per cent in 1892, and 62.27 per cent in 1893. The pro-



portion of males in each wage class increases after the \$9 wage limit is passed, while the proportion of females correspondingly declines. The largest percentages of females are, of course, found in the lowest wage classes, while the exact opposite is true with reference to the males.

The fluctuations in the different wage classes are shown, for the nine leading industries, and for All Industries, in the following table:

INDUSTRIES, AND CLASSIFICATION OF WEEKLY WAGE.	PERCENTAGES					
	1892			1893		
	Males	Females	Totals	Males	Females	Totals
<b>BOOTS AND SHOES.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	4.92	16.55	8.52	5.05	16.66	8.74
\$5 but under \$6, . . . .	3.29	10.14	5.41	3.16	10.15	5.38
\$6 but under \$7, . . . .	4.84	11.42	6.83	5.18	12.30	7.44
\$7 but under \$8, . . . .	5.44	12.36	7.58	5.43	12.26	7.60
\$8 but under \$9, . . . .	5.34	10.86	7.05	5.87	11.37	7.61
\$9 but under \$10, . . . .	8.71	11.60	9.60	8.91	11.35	9.68
\$10 but under \$12, . . . .	14.07	12.94	13.72	14.18	13.27	13.89
\$12 but under \$15, . . . .	25.29	9.42	20.38	24.02	8.70	19.16
\$15 but under \$20, . . . .	20.85	4.31	15.73	20.61	3.59	15.21
\$20 and over, . . . . .	7.25	0.40	5.13	7.59	0.35	5.29
<b>CARPETINGS.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	16.18	29.74	23.50	13.71	24.15	19.40
\$5 but under \$6, . . . .	7.82	19.12	13.92	8.82	19.50	14.64
\$6 but under \$7, . . . .	13.42	14.04	13.75	6.11	16.12	11.57
\$7 but under \$8, . . . .	7.38	8.76	8.12	13.79	13.64	13.71
\$8 but under \$9, . . . .	9.87	8.00	8.86	10.17	8.59	9.31
\$9 but under \$10, . . . .	11.56	10.74	11.11	11.26	10.29	10.73
\$10 but under \$12, . . . .	11.24	8.99	10.03	10.69	6.48	8.39
\$12 but under \$15, . . . .	13.73	0.57	6.63	13.62	1.16	6.83
\$15 but under \$20, . . . .	7.20	0.04	3.34	9.08	0.07	4.17
\$20 and over, . . . . .	1.60	-	0.74	2.75	-	1.25
<b>COTTON GOODS.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	17.97	28.54	23.46	17.26	27.77	22.67
\$5 but under \$6, . . . .	9.78	19.31	14.73	10.11	18.68	14.52
\$6 but under \$7, . . . .	16.61	20.31	18.53	16.33	20.57	18.51
\$7 but under \$8, . . . .	11.74	14.72	13.29	11.49	13.91	12.74
\$8 but under \$9, . . . .	9.44	8.78	9.10	10.45	10.28	10.36
\$9 but under \$10, . . . .	10.65	5.48	7.96	10.42	5.68	7.98
\$10 but under \$12, . . . .	11.73	2.60	6.99	12.08	2.73	7.27
\$12 but under \$15, . . . .	7.89	0.25	3.92	7.58	0.35	3.86
\$15 but under \$20, . . . .	2.73	0.01	1.32	2.89	0.03	1.41
\$20 and over, . . . . .	1.46	-	0.70	1.39	-	0.68

INDUSTRIES, AND CLASSIFICATION OF WEEKLY WAGE.	PERCENTAGES					
	1892			1893		
	Males	Females	Totals	Males	Females	Totals
<b>LEATHER.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	1.81	22.58	2.45	1.42	31.84	2.57
\$5 but under \$6, . . . .	2.07	24.42	2.76	1.88	24.72	2.73
\$6 but under \$7, . . . .	5.10	20.23	5.57	4.10	20.97	4.74
\$7 but under \$8, . . . .	7.60	13.83	7.79	8.70	10.11	8.76
\$8 but under \$9, . . . .	10.43	7.37	10.34	10.29	4.49	10.07
\$9 but under \$10, . . . .	20.82	6.45	20.38	22.54	3.37	21.81
\$10 but under \$12, . . . .	24.44	4.15	23.81	24.21	3.75	23.44
\$12 but under \$15, . . . .	17.11	0.92	16.60	17.57	0.75	16.94
\$15 but under \$20, . . . .	8.30	-	8.05	7.24	-	6.97
\$20 and over, . . . . .	2.32	-	2.25	2.05	-	1.97
<b>MACHINES AND MACHINERY.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	6.47	23.47	6.72	5.84	20.89	6.05
\$5 but under \$6, . . . .	3.52	13.95	3.68	4.35	13.70	4.48
\$6 but under \$7, . . . .	5.65	28.57	5.99	5.33	34.25	5.74
\$7 but under \$8, . . . .	7.50	18.03	7.65	7.56	12.67	7.63
\$8 but under \$9, . . . .	7.32	6.80	7.31	7.89	5.48	7.86
\$9 but under \$10, . . . .	11.27	3.06	11.15	11.19	3.77	11.08
\$10 but under \$12, . . . .	15.06	3.06	14.89	14.83	4.45	14.69
\$12 but under \$15, . . . .	20.74	2.72	20.47	20.63	4.11	20.39
\$15 but under \$20, . . . .	18.04	0.34	17.78	18.30	0.63	18.06
\$20 and over, . . . . .	4.43	-	4.36	4.03	-	4.02
<b>METALS AND METALLIC GOODS.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	4.88	24.85	6.95	5.42	21.62	7.00
\$5 but under \$6, . . . .	3.76	19.85	5.43	3.24	19.10	4.79
\$6 but under \$7, . . . .	5.89	24.79	7.85	5.67	24.35	7.50
\$7 but under \$8, . . . .	7.79	14.93	8.54	7.91	16.63	8.77
\$8 but under \$9, . . . .	7.02	8.04	7.13	7.43	8.78	7.56
\$9 but under \$10, . . . .	14.24	3.66	13.14	13.77	4.66	12.88
\$10 but under \$12, . . . .	16.00	2.92	14.65	16.59	3.46	15.30
\$12 but under \$15, . . . .	20.27	0.73	18.24	18.80	1.13	17.07
\$15 but under \$20, . . . .	15.23	0.18	13.66	15.37	0.27	13.90
\$20 and over, . . . . .	4.92	-	4.41	5.80	-	5.23
<b>PAPER AND PAPER GOODS.</b>	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	3.36	21.76	11.72	3.48	24.81	13.23
\$5 but under \$6, . . . .	1.96	26.59	13.15	2.36	25.28	12.84
\$6 but under \$7, . . . .	3.60	24.53	13.11	4.56	25.33	14.05
\$7 but under \$8, . . . .	10.89	16.34	13.37	12.02	12.96	12.45
\$8 but under \$9, . . . .	10.89	6.40	8.85	10.59	6.95	8.93
\$9 but under \$10, . . . .	23.88	2.95	14.37	23.54	3.19	14.24
\$10 but under \$12, . . . .	14.27	1.12	8.30	14.23	1.01	8.18
\$12 but under \$15, . . . .	15.23	0.19	8.39	15.10	0.34	8.35
\$15 but under \$20, . . . .	12.49	0.12	6.87	10.50	0.13	5.76
\$20 and over, . . . . .	3.43	-	1.87	3.62	-	1.97



INDUSTRIES, AND CLASSIFICATION OF WEEKLY WAGE.	PERCENTAGES					
	1892			1893		
	Males	Females	Totals	Males	Females	Totals
WOOLLEN GOODS.	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	8.96	25.02	14.97	9.02	25.92	15.25
\$5 but under \$6, . . . .	6.16	12.80	8.65	6.68	13.62	9.24
\$6 but under \$7, . . . .	13.11	18.38	15.08	12.66	17.16	14.32
\$7 but under \$8, . . . .	19.24	21.85	20.22	18.37	19.22	18.69
\$8 but under \$9, . . . .	11.28	9.41	10.58	13.60	12.56	13.21
\$9 but under \$10, . . . .	13.78	6.66	11.11	13.44	6.04	10.71
\$10 but under \$12, . . . .	13.13	4.91	10.05	12.59	4.53	9.62
\$12 but under \$15, . . . .	8.32	0.97	5.57	7.92	0.94	5.34
\$15 but under \$20, . . . .	4.11	-	2.57	3.94	0.01	2.49
\$20 and over, . . . . .	1.91	-	1.20	1.78	-	1.13
WORSTED GOODS.	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	8.54	21.00	14.71	10.25	23.36	16.63
\$5 but under \$6, . . . .	9.81	25.97	17.82	6.81	24.22	15.28
\$6 but under \$7, . . . .	10.53	25.87	18.13	10.22	29.61	19.65
\$7 but under \$8, . . . .	19.46	12.52	16.02	20.72	10.85	15.91
\$8 but under \$9, . . . .	8.54	7.08	7.82	10.08	5.67	7.94
\$9 but under \$10, . . . .	10.86	3.31	7.12	10.88	2.89	6.99
\$10 but under \$12, . . . .	11.88	3.90	7.92	12.55	3.16	7.99
\$12 but under \$15, . . . .	14.92	0.35	7.71	13.40	0.08	6.92
\$15 but under \$20, . . . .	3.80	-	1.92	3.71	0.16	1.98
\$20 and over, . . . . .	1.66	-	0.83	1.88	-	0.71
ALL INDUSTRIES.	100.00	100.00	100.00	100.00	100.00	100.00
Under \$5, . . . . .	7.53	25.19	16.37	7.48	24.64	13.20
\$5 but under \$6, . . . .	4.67	18.09	9.13	4.79	17.65	9.08
\$6 but under \$7, . . . .	7.65	18.72	11.33	7.51	19.13	11.39
\$7 but under \$8, . . . .	8.71	13.93	10.45	8.84	13.52	10.40
\$8 but under \$9, . . . .	7.87	8.98	5.27	8.49	9.81	8.93
\$9 but under \$10, . . . .	12.87	6.52	10.76	12.95	6.68	10.86
\$10 but under \$12, . . . .	14.81	5.22	11.62	14.83	5.25	11.63
\$12 but under \$15, . . . .	17.60	2.36	12.53	17.14	2.41	12.23
\$15 but under \$20, . . . .	13.69	0.88	9.43	13.47	0.82	9.25
\$20 and over, . . . . .	4.60	0.11	3.11	4.50	0.09	3.03

In this table, the total number of males, the total number of females, and the total number of employes of both sexes are each considered as representing 100 per cent, and the number of employes in each wage class constitute parts of this aggregate, or in other words, are represented by percentages which totalize to 100. In All Industries, that class in which the proportion of the sexes is about the same is the class receiving \$8 but under \$9 per week. The percentages of males in this class

in 1892 and 1893 were 7.87 and 8.49, respectively, and of females 8.98 and 9.81, respectively. The percentages of females receiving less than \$5 a week declined in 1893 to 24.64 as against 25.19 found in this class in 1892, and the percentage of males also declined from 7.53 in 1892 to 7.48 in 1893. The percentages of males and females receiving \$5 but under \$6, \$6 but under \$7, and \$7 but under \$8, do not materially vary in either year. The percentages of males and females receiving \$9 but under \$10, \$10 but under \$12, and \$12 but under \$15, are practically the same in each year. The corresponding details for each of the nine leading industries will be readily seen upon examination of the table.

For the purpose of bringing clearly before the reader the fact of increase or decrease in the aggregate number of employes receiving specified wage in each of the classified wage classes, in 1893 as compared with 1892, the following graphic table is introduced:

INDUSTRIES, AND SEX.	INCREASE (+), OR DECREASE (—), IN NUMBER OF PERSONS RECEIVING SPECIFIED WEEKLY WAGE IN 1893 AS COMPARED WITH 1892									
	Under \$5	\$5 but under \$6	\$6 but under \$7	\$7 but under \$8	\$8 but under \$9	\$9 but under \$10	\$10 but under \$12	\$12 but under \$15	\$15 but under \$20	\$20 and over
<i>Boots and Shoes.</i>	+	—	+	+	+	+	+	—	—	+
Males, . . . . .	+	—	+	—	+	+	+	—	—	+
Females, . . . . .	+	+	+	—	+	—	+	—	—	—
<i>Carpetings.</i>	—	+	—	+	+	—	—	+	+	+
Males, . . . . .	—	+	—	+	+	—	—	—	+	+
Females, . . . . .	—	+	+	+	+	—	—	+	+	×
<i>Cotton Goods.</i>	—	—	—	—	+	+	+	—	+	—
Males, . . . . .	—	+	—	—	+	—	+	—	+	—
Females, . . . . .	—	—	+	—	+	+	+	+	+	×
<i>Leather.</i>	+	—	—	+	—	+	—	+	—	—
Males, . . . . .	—	—	—	+	—	+	—	+	—	—
Females, . . . . .	+	+	+	—	—	—	—	—	×	×
<i>Machines and Machinery.</i>	—	+	—	—	+	—	—	—	+	—
Males, . . . . .	—	+	—	+	+	—	—	—	+	—
Females, . . . . .	—	—	+	—	—	+	+	+	+	×
<i>Metals and Metallic Goods.</i>	+	—	—	+	+	—	+	—	+	+
Males, . . . . .	+	—	—	+	+	—	+	—	+	+
Females, . . . . .	—	—	—	+	+	+	+	+	+	×

INDUSTRIES, AND SEX.	INCREASE (+), OR DECREASE (—), IN NUMBER OF PERSONS RECEIVING SPECIFIED WEEKLY WAGE IN 1893 AS COMPARED WITH 1892									
	Under \$5	\$5 but under \$6	\$6 but under \$7	\$7 but under \$8	\$8 but under \$9	\$9 but under \$10	\$10 but under \$12	\$12 but under \$15	\$15 but under \$20	\$20 and over
<i>Paper and Paper Goods.</i>	+	—	+	—	+	—	—	—	—	+
Males, . . . . .	+	+	+	+	—	—	—	—	—	+
Females, . . . . .	+	—	+	—	+	+	—	+	+	×
<i>Woollen Goods.</i>	+	+	—	—	+	—	—	—	—	—
Males, . . . . .	+	+	—	—	+	—	—	—	—	—
Females, . . . . .	+	+	—	—	+	—	—	—	+	×
<i>Worsted Goods.</i>	+	—	+	—	+	—	+	—	+	—
Males, . . . . .	+	—	—	+	+	+	+	—	—	—
Females, . . . . .	+	—	+	—	—	—	—	—	+	×
<b>ALL INDUSTRIES.</b>	—	—	+	—	+	+	+	—	—	—
Males, . . . . .	—	+	—	+	+	+	+	—	—	—
Females, . . . . .	—	—	+	—	+	+	+	+	—	—

In this table, increases in the number of persons receiving a specified wage in each wage class are shown by the sign (+) and decreases by the sign (—). Wherever, in any class, no employés were returned as receiving the specified wage, the fact is indicated by the sign (×). With these explanations, the meaning of the table will be clear:

We confine our analysis to All Industries. It will be seen that an increase is shown for all employés, in the aggregate, in the following classes: \$6 but under \$7, \$8 but under \$9, \$9 but under \$10, and \$10 but under \$12. The number of males increased in each of these classes, except \$6 but under \$7, and increases are also shown in the classes \$5 but under \$6 and \$7 but under \$8; an increase is shown for females in each of the classes showing an increase for all employés in the aggregate, as well as for the class containing those receiving \$12 but under \$15 per week. A decrease is shown for all employés in the aggregate in the following classes: Under \$5, \$5 but under \$6, \$7 but under \$8, \$12 but under \$15, \$15 but under \$20, and \$20 and over.

## PROPORTION OF BUSINESS DONE: BY INDUSTRIES.

The statistical presentations relating to this subject, which covers proportion of business done and average number of days in operation, will be found on pages 55 to 60.

## PROPORTION OF BUSINESS DONE.

In computing the proportion of business done, maximum production, that is to say, the greatest amount of goods that can be turned out with the present facilities, is considered 100 per cent. In the 4,397 establishments making return in each year, the proportion of business done in 1892 is represented by 69.38 per cent and in 1893 by 59.18 per cent. Three industries report a larger proportion of business done in 1893 than in 1892; they are Burial Cases, Caskets, Coffins, etc.; Corks, Bungs, and Taps; and Earthen, Plaster, and Stone Ware. The percentages of increase are 0.19, 2.33, and 5.79, respectively. The following table reproduces the average proportion of business done for the nine selected industries:

INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE PRO- PORTION OF BUSINESS DONE		INCREASE (+), OR DECREASE (-), IN 1893	
		1892	1893	Proportion	Percent- ages
Boots and shoes, . . . . .	712	69.50	48.59	-20.91	-30.09
Carpetings, . . . . .	11	80.64	69.27	-11.37	-14.10
Cotton goods, . . . . .	149	93.77	86.09	-7.68	-8.19
Leather, . . . . .	148	70.21	60.53	-9.68	-13.97
Machines and machinery, . . . . .	335	68.47	59.20	-9.27	-13.54
Metals and metallic goods, . . . . .	341	69.32	59.37	-9.95	-14.35
Paper and paper goods, . . . . .	98	84.98	73.66	-11.32	-13.32
Woollen goods, . . . . .	125	87.46	74.03	-13.43	-15.36
Worsted goods, . . . . .	20	90.15	77.40	-12.75	-14.14
Other industries, . . . . .	2,458	66.19	58.98	-7.21	-10.89
ALL INDUSTRIES, . . . . .	4,397	69.38	59.18	-10.20	-14.70

As indicated in the above table, Cotton Goods is the only industry in which production approached full capacity in both years, the percentages being 93.77 in 1892 and 86.09 in 1893. Next to this industry ranks Worsted Goods, in which the establishments ran to 90.15 per cent of the full capacity in 1892 and

77.40 per cent in 1893. Without exception, so far as these nine leading industries are concerned, and also with respect to All Industries, the proportion of business done in 1893 decreased as compared with 1892, the percentages of decrease being, in a number of cases, quite large. Confining our analysis to 1893 only, it will be noted that in All Industries considered together, production approximated but about six-tenths of the full capacity of the establishments. In Leather, Machines and Machinery, and Metals and Metallic Goods the same condition obtained. In Carpetings, production was slightly under seven-tenths of full capacity, while in Paper and Paper Goods and Woollen Goods over seven-tenths of the full capacity was reached. In Cotton Goods, production exceeded eight-tenths of the full capacity of the establishments and in Worsted Goods the production was slightly under eight-tenths. In Boots and Shoes is found the lowest percentage, the proportion of business done being less than one-half of the productive capacity of the establishments.

#### DAYS IN OPERATION.

The statistical presentation relating to this division of the subject will be found on pages 58 and 59. The average number of days in operation during 1892 was, for All Industries, 297.83 and during 1893, 277.36, a decrease of 20.47 days, or 6.87 per cent. Three industries only show an increase in average number of days in operation in 1893 as compared with 1892; they are, Fine Arts and Taxidermy; Rubber and Elastic Goods; and Stone. The increase in average number of days in these three industries was 1.50, 3.40, and 8.81, respectively.

In the following table we bring forward the facts for the nine leading industries:



INDUSTRIES.	Number of Estab- lishments Con- sidered	AVERAGE NUMBER OF DAYS IN OPERATION		INCREASE (+), OR DECREASE (−), IN 1893	
		1892	1893	Days	Percent- ages
Boots and shoes, . . . . .	712	293.56	274.41	−19.15	−6.52
Carpetings, . . . . .	11	303.33	247.53	−55.80	−18.40
Cotton goods, . . . . .	149	304.85	282.09	−22.76	−7.47
Leather, . . . . .	148	294.12	279.04	−15.08	−5.13
Machines and machinery, . . . . .	335	303.51	286.60	−16.91	−5.57
Metals and metallic goods, . . . . .	341	292.02	266.52	−25.50	−8.73
Paper and paper goods, . . . . .	98	289.99	276.52	−13.47	−4.64
Woollen goods, . . . . .	125	299.29	262.37	−36.92	−12.34
Worsted goods, . . . . .	20	303.61	277.96	−25.65	−8.45
Other industries, . . . . .	2,458	294.68	278.67	−16.01	−5.43
ALL INDUSTRIES, . . . . .	4,397	297.83	277.36	−20.47	−6.87

The decrease in average number of days in operation for All Industries was 20.47. Industries showing a decrease greater than that shown for All Industries are Carpetings in which, on an average per establishment, 55.80 days were lost during 1893; Woollen Goods with an average loss of 36.92 days; Worsted Goods, the average loss per establishment being 25.65 days; Metals and Metallic Goods, an average loss of 25.50 days, and Cotton Goods, an average loss of 22.76 days. The other industries mentioned in detail, show fewer days lost, on an average, than is shown for All Industries.

The total number of working days in 1893, exclusive of 53 Sundays and seven holidays, was 305. The average number of working days in a month was, therefore, 25.42 days. The following industries show a loss of more than one month but less than two months, on an average, in 1893:

Buttons and Dress Trimmings.	Lumber.
Clocks, Watches, and Jewelry.	Metals and Metallic Goods.
Cotton, Woollen, and Other Textiles.	Musical Instruments and Materials.
Crayons, Pencils, Crucibles, etc.	Print Works, Dye Works, and
Electrical Apparatus and Appli- ances.	Bleacheries.
Emery and Sand Paper and Cloth, etc.	Silk and Silk Goods.
Flax, Hemp, Jute, and Linen Goods.	Trunks and Valises.
	Woollen Goods.
	Worsted Goods.

In three industries, Carpetings; Glass; and Whips, Lashes, and Stocks, the loss, on an average, exceeded two months.



## SUMMARY.

It has been customary in these reports to summarize the leading points relative to the condition of the different industries in a series of tables in which the industries are separated into classes, these classes being based upon the returns as to the average number of days in operation and the average proportion of business done. It has not been found practicable to show these classes in tabular form as in previous reports, but in the following table is brought forward the necessary data for analytical treatment :

INDUSTRIES.	INCREASE (+), DECREASE (-), OR NO CHANGE (=), IN 1893 AS COMPARED WITH 1892 IN—				
	Average Number of Days in Operation	Average Proportion of Busi- ness Done	Average Yearly Earnings	Average Number of Persons Employed	"Range"
Agricultural implements, . . . .	-12.67	-5.55	-\$22.88	-26	+8
Arms and ammunition, . . . .	-7.82	-9.08	-28.01	-125	+474
Artisans' tools, . . . .	-20.81	-9.82	-7.74	-139	+363
Awnings, sails, tents, etc., . . . .	-0.18	-4.82	+5.66	-4	-5
Boots and shoes, . . . .	-19.15	-20.91	-24.27	-3,470	+5,776
Boxes (paper and wooden), . . . .	-20.38	-9.53	-5.22	-153	+70
Brick, tiles, and sewer pipe, . . . .	-6.77	-4.57	+2.04	-80	+108
Brooms, brushes, and mops, . . . .	-11.90	-12.57	-7.14	-22	+86
Burial cases, caskets, coffins, etc., . . . .	-1.78	+0.16	+0.12	+3	+22
Buttons and dress trimmings, . . . .	-29.41	-16.42	+0.70	-163	+385
Carpetings, . . . .	-55.80	-11.37	-21.11	-368	+2,629
Carriages and wagons, . . . .	-8.79	-7.38	+18.02	-281	+347
Cement, kaolin, lime, and plaster, . . . .	-7.88	-1.29	-11.96	-3	+6
Chemical preparations (compounded), . . . .	-5.18	-12.70	-16.78	-18	+17
Clocks, watches, and jewelry, . . . .	-25.92	-11.81	-46.52	-316	+510
Clothing, . . . .	-17.44	-9.93	+11.02	-1,697	+586
Cooking, lighting, and heating apparatus, . . . .	-15.57	-10.88	+3.32	-180	+343
Cordage and twine, . . . .	-11.11	-9.63	-1.54	-129	-408
Corks, bungs, and taps, . . . .	-2.32	+1.33	+4.23	-5	+7
Cotton goods, . . . .	-22.76	-7.68	-2.39	-208	+11,608
Cotton, woollen, and other textiles, . . . .	-48.68	-2.34	-11.08	-353	+1,454
Crayons, pencils, crucibles, etc., . . . .	-34.92	-13.34	-68.36	-3	-4
Drugs and medicines, . . . .	-6.83	-1.82	-12.06	-26	-14
Dyestuffs, . . . .	-20.52	-9.60	-16.60	-43	+4
Earthen, plaster, and stone ware, . . . .	-11.33	+3.86	-117.24	+20	+29
Electrical apparatus and appliances, . . . .	-38.97	-6.00	-133.53	-446	+1,436
Electroplating, . . . .	-11.61	-7.56	+3.06	-2	+27
Emery and sand paper and cloth, etc., . . . .	-34.70	-24.70	-49.41	-6	+137
Fancy articles, etc., . . . .	-11.18	-10.80	-10.74	-9	=
Fertilizers, . . . .	-2.19	-1.00	-27.82	-2	+7
Fine arts and taxidermy, . . . .	+1.50	-15.00	-163.83	=	-1
Flax, hemp, jute, and linen goods, . . . .	-39.08	-4.14	-11.76	+80	-75

INDUSTRIES.	INCREASE (+), DECREASE (—), OR NO CHANGE (=), IN 1893 AS COMPARED WITH 1892 IN —				
	Average Number of Days in Operation	Average Proportion of Busi- ness Done	Average Yearly Earnings	Average Number of Persons Employed	"Range"
Food preparations, . . . . .	—5.78	—3.47	—\$19.01	—518	+215
Furniture, . . . . .	—11.30	—9.30	—19.03	—462	+320
Glass, . . . . .	—51.79	—4.00	+62.76	—153	+45
Glue, isinglass, and starch, . . . . .	—1.21	—6.23	+2.66	—10	+6
Hair work (animal and human), . . . . .	—21.02	—10.22	—40.00	—16	+4
Hose: rubber, linen, etc., . . . . .	—20.79	—18.33	—26.64	+43	+60
Hosiery and knit goods, . . . . .	—17.94	—9.60	—25.81	+46	+97
Ink, mucilage, and paste, . . . . .	—10.95	—2.67	+6.64	—4	+4
Ivory, bone, shell, and horn goods, etc., . . . . .	—11.20	—6.80	—4.92	—42	+91
Leather, . . . . .	—15.08	—9.68	—16.97	—316	+1,352
Liquors and beverages (not spirituous), . . . . .	—1.14	—5.52	—5.11	—18	+37
Liquors: malt, distilled, and fermented, . . . . .	—0.56	—4.47	+22.05	+42	+16
Lumber, . . . . .	—44.95	—4.24	—29.73	+49	+97
Machines and machinery, . . . . .	—16.91	—9.27	—20.90	—484	+3,697
Metals and metallic goods, . . . . .	—25.50	—9.95	—11.87	—1,043	+1,582
Mixed textiles, . . . . .	—13.29	—7.46	+4.31	—12	+205
Models, lasts, and patterns, . . . . .	—3.20	—5.87	—28.40	—3	+46
Musical instruments and materials, . . . . .	—33.35	—13.93	—31.50	—626	+1,091
Oils and illuminating fluids, . . . . .	—0.44	—9.70	+20.99	—10	+43
Paints, colors, and crude chemicals, . . . . .	—14.16	—5.05	—11.36	—5	+26
Paper and paper goods, . . . . .	—13.47	—11.32	—13.52	—427	+1,212
Perfumes, toilet articles, etc., . . . . .	—14.68	—20.00	+20.92	—4	+7
Photographs and photographic materials, . . . . .	—2.90	—9.41	—4.50	—29	—1
Polishes and dressing, . . . . .	—8.40	—10.89	+3.82	—7	+34
Printing, publishing, and bookbinding, . . . . .	—2.13	—6.47	+32.31	—53	—21
Print works, dye works, and bleacheries, . . . . .	—33.31	—6.23	—14.69	—205	+1,936
Railroad construction and equipment, . . . . .	—3.99	—6.07	+15.04	+744	+675
Rubber and elastic goods, . . . . .	+3.40	—8.85	+42.56	+140	+284
Saddlery and harness, . . . . .	—7.18	—13.53	—28.36	—52	+23
Scientific instruments and appliances, . . . . .	—11.73	—8.20	—30.22	—119	+145
Shipbuilding, . . . . .	—2.58	—3.34	—20.38	+7	+57
Silk and silk goods, . . . . .	—38.98	—25.25	—14.41	—110	+357
Sporting and athletic goods, . . . . .	—22.38	—10.29	—28.01	—30	—25
Stone, . . . . .	+8.81	—1.08	—12.87	+470	—542
Straw and palm leaf goods, . . . . .	—3.01	—4.85	+10.87	—38	+189
Tallow, candles, soap, and grease, . . . . .	—11.02	—6.19	+18.87	—15	+24
Tobacco, snuff, and cigars, . . . . .	—7.00	—8.07	+48.91	—74	+15
Toys and games (children's), . . . . .	—14.52	—8.25	—25.82	—29	+3
Trunks and valises, . . . . .	—26.44	—9.00	—44.88	—15	+4
Whips, lashes, and stocks, . . . . .	—54.79	—4.10	+15.52	—111	+305
Wooden goods, . . . . .	—14.08	—6.94	+1.02	—147	+107
Woollen goods, . . . . .	—36.92	—13.43	—18.54	—1,243	+4,232
Worsted goods, . . . . .	—25.65	—12.75	—125.18	+29	+1,783
ALL INDUSTRIES, . . . . .	—20.47	—10.20	—\$16.42	—13,034	+46,182

The industries usually comprised in the first class are those exhibiting an increase in average number of days in operation

and also in the average proportion of business done. In 1893, as will be seen by the above table, there were no industries which could be classed under this head. Three industries only, Fine Arts and Taxidermy; Rubber and Elastic Goods; and Stone, are to be found which contain the elements necessary to be quoted in the second class, namely, those showing an increase in the average number of days in operation and a decrease in the average proportion of business done in 1893 as compared with 1892. Of these industries, Rubber and Elastic Goods only shows an increase in average yearly earnings. Increases appear in the average number of persons employed in Rubber and Elastic Goods and Stone, while in Fine Arts and Taxidermy the average number of persons employed remained the same in both years. The range of unemployment, as indicated by the difference between the smallest and greatest number of persons employed, is narrower in 1893 than in 1892 in Fine Arts and Taxidermy and Stone but wider in Rubber and Elastic Goods. All of the industries in this class show increase in value of product.

The industries of the third class include those which show a decline in the average number of days in operation but a greater average proportion of business done and include, for 1893, Burial Cases, Caskets, Coffins, etc.; Corks, Bungs, and Taps; and Earthen, Plaster, and Stone Ware. Of these, only the first named shows an increase in value of goods made. With the exception of Earthen, Plaster, and Stone Ware, increases are shown in average yearly earnings, and, except Corks, Bungs, and Taps, an increase in the average number of persons employed. The range of unemployment is wider in 1893 than in 1892 in all three industries.

The fourth class comprises those industries which show a decrease in the average number of days in operation and also in the average proportion of business done. This class includes all of the industries shown in the foregoing table, with the exception of the six just analyzed which, as has been stated, are included in the second and third classes, respectively. All of these 69 industries report a decreased product value, except the following nine: Arms and Ammunition; Cement, Kaolin, Lime, and Plaster; Fertilizers; Flax, Hemp, Jute, and Linen Goods; Glue, Isinglass, and Starch; Liquors: Malt, Distilled,

and Fermented; Printing, Publishing, and Bookbinding; Railroad Construction and Equipment; and Straw and Palm Leaf Goods.

Of these industries, 69 in number, decreased average annual earnings appear in all but 22; they are, Awnings, Sails, Tents, etc.; Brick, Tiles, and Sewer Pipe; Buttons and Dress Trimmings; Carriages and Wagons; Clothing; Cooking, Lighting, and Heating Apparatus; Electroplating; Glass; Glue, Isinglass, and Starch; Ink, Mucilage, and Paste; Liquors: Malt, Distilled, and Fermented; Mixed Textiles; Oils and Illuminating Fluids; Perfumes, Toilet Articles, etc.; Polishes and Dressing; Printing, Publishing, and Bookbinding; Railroad Construction and Equipment; Straw and Palm Leaf Goods; Tallow, Candles, Soap, and Grease; Tobacco, Snuff, and Cigars; Whips, Lashes, and Stocks; and Wooden Goods.

A decrease in the average number of persons employed is shown in 61 industries, increases appearing in the following eight only: Flax, Hemp, Jute, and Linen Goods; Hose: Rubber, Linen, etc.; Hosiery and Knit Goods; Liquors: Malt, Distilled, and Fermented; Lumber; Railroad Construction and Equipment; Shipbuilding; and Worsted Goods. The range of unemployment was wider in 1893 than in 1892 in 60 industries and narrower in the following eight: Awnings, Sails, Tents, etc.; Cordage and Twine; Crayons, Pencils, Crucibles, etc.; Drugs and Medicines; Flax, Hemp, Jute, and Linen Goods; Photographs and Photographic Materials; Printing, Publishing, and Bookbinding; and Sporting and Athletic Goods. There was no variation in the range of unemployment in Fancy Articles, etc.

In the following table is presented a graphic portrayal of conditions in each industry in 1893 as compared with 1892, with respect to the total amount of capital invested, total value of goods made and work done, total amount paid in wages during the year, and the average number of persons employed. An increase in any of these items is indicated by the sign (+), a decrease by the sign (—), and no change by the sign (=).



INDUSTRIES.	INCREASE (+), DECREASE (-), OR NO CHANGE (=), IN 1893 AS COMPARED WITH 1892 IN —			
	Amount of Capital Invested	Value of Goods Made and Work Done	Total Amount Paid in Wages	Average Number of Persons Employed
Agricultural implements, . . . . .	—	—	—	—
Arms and ammunition, . . . . .	+	+	—	—
Artisans' tools, . . . . .	+	—	—	—
Awnings, sails, tents, etc., . . . . .	—	—	—	—
Boots and shoes, . . . . .	+	—	—	—
Boxes (paper and wooden), . . . . .	+	—	—	—
Brick, tiles, and sewer pipe, . . . . .	+	—	—	—
Brooms, brushes, and mops, . . . . .	+	—	—	—
Burial cases, caskets, coffins, etc., . . . . .	—	+	+	+
Buttons and dress trimmings, . . . . .	+	—	—	—
Carpetings, . . . . .	+	—	—	—
Carriages and wagons, . . . . .	+	—	—	—
Cement, kaolin, lime, and plaster, . . . . .	+	+	—	—
Chemical preparations (compounded), . . . . .	+	—	—	—
Clocks, watches, and jewelry, . . . . .	—	—	—	—
Clothing, . . . . .	—	—	—	—
Cooking, lighting, and heating apparatus, . . . . .	—	—	—	—
Cordage and twine, . . . . .	+	—	—	—
Corks, bungs, and taps, . . . . .	—	—	—	—
Cotton goods, . . . . .	—	—	—	—
Cotton, woollen, and other textiles, . . . . .	—	—	—	—
Crayons, pencils, crucibles, etc., . . . . .	=	—	—	—
Drugs and medicines, . . . . .	+	—	—	—
Dyestuffs, . . . . .	+	—	—	—
Earthen, plaster, and stone ware, . . . . .	—	—	—	+
Electrical apparatus and appliances, . . . . .	+	—	—	—
Electroplating, . . . . .	—	—	—	—
Emery and sand paper and cloth, etc., . . . . .	+	—	—	—
Fancy articles, etc., . . . . .	+	—	—	—
Fertilizers, . . . . .	+	+	—	—
Fine arts and taxidermy, . . . . .	+	+	—	=
Flax, hemp, jute, and linen goods, . . . . .	—	+	+	+
Food preparations, . . . . .	—	—	—	—
Furniture, . . . . .	—	—	—	—
Glass, . . . . .	+	—	—	—
Glue, isinglass, and starch, . . . . .	—	+	—	—
Hair work (animal and human), . . . . .	+	—	—	—
Hose: rubber, linen, etc., . . . . .	—	—	+	+
Hosiery and knit goods, . . . . .	+	—	—	+
Ink, mucilage, and paste, . . . . .	—	—	—	—
Ivory, bone, shell, and horn goods, etc., . . . . .	—	—	—	—
Leather, . . . . .	—	—	—	—
Liquors and beverages (not spirituous), . . . . .	+	—	—	—
Liquors: malt, distilled, and fermented, . . . . .	+	+	+	+
Lumber, . . . . .	+	—	—	+
Machines and machinery, . . . . .	+	—	—	—
Metals and metallic goods, . . . . .	—	—	—	—
Mixed textiles, . . . . .	—	—	—	—
Models, lasts, and patterns, . . . . .	+	—	—	—

INDUSTRIES.	INCREASE (+), DECREASE (-), OR NO CHANGE, (=), IN 1893 AS COMPARED WITH 1892 IN —			
	Amount of Capital Invested	Value of Goods Made and Work Done	Total Amount Paid in Wages	Average Number of Persons Employed
Musical instruments and materials, . .	+	—	—	—
Oils and illuminating fluids, . . . .	+	—	—	—
Paints, colors, and crude chemicals, . .	—	—	—	—
Paper and paper goods, . . . . .	+	—	—	—
Perfumes, toilet articles, etc., . . . .	—	—	—	—
Photographs and photographic materials, .	—	—	—	—
Polishes and dressing, . . . . .	+	—	—	—
Printing, publishing, and bookbinding, .	+	+	+	—
Print works, dye works, and bleacheries, .	+	—	—	—
Railroad construction and equipment, . .	—	+	+	+
Rubber and elastic goods, . . . . .	+	+	+	+
Saddlery and harness, . . . . .	—	—	—	—
Scientific instruments and appliances, . .	—	—	—	—
Shipbuilding, . . . . .	+	—	—	+
Silk and silk goods, . . . . .	+	—	—	—
Sporting and athletic goods, . . . . .	+	—	—	—
Stone, . . . . .	—	+	+	+
Straw and palm leaf goods, . . . . .	+	+	+	—
Tallow, candles, soap, and grease, . .	+	—	+	—
Tobacco, snuff, and cigars, . . . . .	—	—	+	—
Toys and games (children's), . . . . .	—	—	—	—
Trunks and valises, . . . . .	—	—	—	—
Whips, lashes, and stocks, . . . . .	+	—	—	—
Wooden goods, . . . . .	+	—	—	—
Woollen goods, . . . . .	—	—	—	—
Worsted goods, . . . . .	—	—	—	+
ALL INDUSTRIES, . . . . .	+	—	—	—

All Industries, in the aggregate, shows an increased amount of capital invested, a decreased product value, a smaller amount disbursed in wages, and a smaller average number of persons employed. The same statement applies to the following industries, 29 in number :

Artisans' Tools.  
Boots and Shoes.  
Boxes (Paper and Wooden).  
Brick, Tiles, and Sewer Pipe.  
Brooms, Brushes, and Mops.  
Buttons and Dress Trimmings.  
Carpetings.  
Carriages and Wagons.  
Chemical Preparations (Compound-  
ed).

Cordage and Twine.  
Drugs and Medicines.  
Dyestuffs.  
Electrical Apparatus and Appli-  
ances.  
Emery and Sand Paper and Cloth,  
etc.  
Fancy Articles, etc.  
Glass.  
Hair Work (Animal and Human).



Liquors and Beverages (Not Spirituous).	Polishes and Dressing.
Machines and Machinery.	Print Works, Dye Works, and Bleacheries.
Models, Lasts, and Patterns.	Silk and Silk Goods.
Musical Instruments and Materials.	Sporting and Athletic Goods.
Oils and Illuminating Fluids.	Whips, Lashes, and Stocks.
Paper and Paper Goods.	Wooden Goods.

In four industries a smaller capital is returned, but, nevertheless, an increase in each of the other items. These are: Burial Cases, Caskets, Coffins, etc.; Flax, Hemp, Jute, and Linen Goods; Railroad Construction and Equipment; and Stone. Two industries, only, show a larger capital, greater product value, an increase in aggregate amount paid in wages, and a larger average number of persons employed. These are: Liquors: Malt, Distilled, and Fermented, and Rubber and Elastic Goods. On the other hand, there are 24 industries which show, not only a decrease in amount of capital invested, but a decrease in each of the other items. These are:

Agricultural Implements.	Leather.
Awnings, Sails, Tents, etc.	Metals and Metallic Goods.
Clocks, Watches, and Jewelry.	Mixed Textiles.
Clothing.	Paints, Colors, and Crude Chemicals.
Cooking, Lighting, and Heating Apparatus.	Perfumes, Toilet Articles, etc.
Corks, Bungs, and Taps.	Photographs and Photographic Materials.
Cotton Goods.	Saddlery and Harness.
Cotton, Woollen, and Other Textiles.	Scientific Instruments and Appliances.
Electroplating.	Toys and Games (Children's).
Food Preparations.	Trunks and Valises.
Furniture.	Woollen Goods.
Ink, Mucilage, and Paste.	
Ivory, Bone, Shell, and Horn Goods, etc.	

The following table reproduces the leading facts relative to All Industries from the presentation on pages 271 to 273:

CLASSIFICATION.	1892	1893	INCREASE (+), OR DECREASE (-), IN 1893	
			Amounts	Percent- ages
Number of private firms, . . . .	3,534	3,478	-56	-1.58
Number of corporations, . . . .	820	872	+52	+6.34
Number of partners, . . . .	5,671	5,519	-152	-2.68
Number of stockholders, . . . .	37,064	33,284	+1,220	+3.29
Amount of capital invested, . . . .	\$439,015,263	\$444,480,277	+\$5,465,014	+1.24
Value of stock used, . . . .	\$376,554,375	\$348,991,905	-\$27,562,470	-7.32
Value of goods made and work done, .	\$639,137,402	\$587,343,550	-\$51,793,852	-8.10
Persons employed :				
Average number, . . . .	306,203	293,169	-13,034	-4.26
Smallest number, . . . .	267,168	222,370	-44,798	-16.77
Greatest number, . . . .	344,004	345,388	+1,384	+0.40
Excess of greatest over smallest num- ber, . . . .	76,836	123,018	+46,182	+60.10
Total amount paid in wages, . . . .	\$137,972,501	\$127,286,397	-\$10,686,104	-7.75
Average yearly earnings, . . . .	\$450.59	\$434.17	-\$16.42	-3.64
Average proportion of business done, .	69.38	59.18	-10.20	-14.70
Average number of days in operation, .	297.83	277.36	-20.47	-6.87

Many of the percentages of variation in the different elements surrounding production in 1893 as compared with 1892 are large. In every case the percentages indicate decreases except in the number of corporations, the number of stockholders, the amount of capital invested, and greatest number of persons employed.

INDUSTRIES.		Number of Estab- lishments Con- sidered	Amount of Capital Invested	Average Number of Persons Employed
1	Boots and shoes, . . . . .	712	\$29,303,026	45,389
2	Carpetings, . . . . .	11	7,993,248	4,335
3	Cotton goods, . . . . .	149	118,855,744	73,540
4	Leather, . . . . .	148	7,063,904	5,602
5	Machines and machinery, . . . . .	335	32,917,618	17,495
6	Metals and metallic goods, . . . . .	341	20,390,350	13,313
7	Paper and paper goods, . . . . .	98	23,137,410	9,653
8	Woollen goods, . . . . .	125	25,554,880	15,857
9	Worsted goods, . . . . .	20	11,033,952	9,025

[NOTE. It is proper to explain certain designations used in the above table. By "Industry value created above the value of stock and materials consumed. The values presented in this from the total value of goods made in each of the specified industries, the value of stock used; proceeds of each industry, one part of this industry product is paid to the labor force in the which are paid freights, insurance, interest on loans (credit capital), interest on stock (fixed or stock and wages. The remainder, if any, is the profit of the employer. The entire balance of "Profit and Minor Expense Fund," and is thus designated in the table. Of course, it will be enumerated, paid out of this balance, are in themselves considerable in amount, and are only to (stock), and wages.]

The increase in number of corporations and stockholders, it will be remembered, is due to changes from the private firm to the corporate basis on the part of the establishments making return in each year. The same cause accounts for percentages of decrease in the number of private firms and in the number of partners. It will be remembered that these returns are rendered by identical establishments in each year. In these establishments capital increased to the extent of 1.24 per cent, value of stock used decreased 7.32 per cent, and value of goods made and work done decreased 8.10 per cent.

The average number of persons employed decreased 4.26 per cent, and the total amount paid in wages exhibits a decrease of 7.75 per cent, while the range of unemployment was 60.10 per cent greater in 1893 than in 1892. The average amount of yearly earnings also shows a decrease, the decline being 3.64 per cent. The average proportion of business done, based upon the full productive capacity of the establishments, was 14.70 per cent less in 1893 than in 1892; while the average number of days in operation was 6.87 per cent less.

The next table presents the actual product per \$1,000 of capital invested in each of the nine leading industries, with the average product per employé, the percentages of industry product paid in wages, and the percentages devoted to other expenses.

Total Amount Paid in Wages During the Year	Industry Product	Profit and Minor Expense Fund	INDUSTRY PRODUCT		PERCENTAGE OF INDUSTRY PRODUCT		
			Per \$1,000 of Capital	Average per Employé	Devoted to Profit and Minor Expenses	Paid in Wages	
\$22,618,569	\$37,711,998	\$15,093,429	\$1,286.97	\$830.86	40.02	59.98	1
1,589,019	2,640,133	1,051,114	330.30	609.03	39.81	60.19	2
25,268,510	40,777,686	15,509,176	343.09	554.50	38.03	61.97	3
2,748,051	4,515,468	1,767,417	566.99	806.05	39.14	60.86	4
9,470,094	17,850,895	8,380,801	542.29	1,020.34	46.95	53.05	5
6,726,827	12,014,563	5,287,736	589.23	902.47	44.01	55.99	6
3,957,802	8,369,264	4,411,462	361.72	866.56	52.71	47.29	7
5,883,015	11,387,112	5,504,097	445.59	718.11	48.34	51.66	8
2,202,796	5,579,530	3,376,734	505.44	618.23	60.52	39.48	9

Product" is meant the actual result of the productive forces in the industry, that is, the added and the following tables under the designation "Industry Product," are obtained by deducting the difference being added value or actual product due to the industry. In the division of the form of wages, this being labor's share of the product. The balance constitutes a fund from invested capital), rents, commissions, salaries, etc.; in fact, all expenses other than those for the industry product remaining after the deduction of the amount paid in wages, becomes a understood that the term "Minor Expense" is relative. The expenses, some of which we have be classed as "Minor" in comparison with the generally larger amounts expended for materials

The note presented with this table explains certain designations used in it. Referring to the table, we find the largest industry product per \$1,000 of capital in Boots and Shoes, namely, \$1,286.97. No other industry approaches this figure. Nearest to it, however, is Metals and Metallic Goods, the industry product being \$589.23. Following this industry ranks Leather, Machines and Machinery, and Worsted Goods, their respective industry products per \$1,000 of capital being \$566.99, \$542.29, and \$505.44. Next below these industries are Woollen Goods, Paper and Paper Goods, and Cotton Goods, the industry products per \$1,000 of capital in these industries being, respectively, \$445.59, \$361.72, and \$343.09. Carpetings ranks lowest among the industries in the selected list, its industry product per \$1,000 of capital being \$330.30.

If we consider that the figures just quoted offer an indication as to the efficiency of the capital invested in these industries during 1893, then those which present the average industry product per employé may be taken as indicating the efficiency of labor. With respect to this point, Machines and Machinery leads the other industries, the average product per employé being \$1,020.34. Not far below it is Metals and Metallic Goods, in which an average of \$902.47 appears. Following in the order named, with averages as specified, are Paper and Paper Goods, \$866.56; Boots and Shoes, \$830.86; Leather, \$806.05; Woollen Goods, \$718.11; Worsted Goods, \$618.23; Carpetings, \$609.03; and Cotton Goods, \$554.50.

Cotton Goods leads when the percentage of industry product paid in wages is considered, the percentage being 61.97. Next rank Leather and Carpetings, in which the percentages are nearly alike, being 60.86 and 60.19, respectively. Boots and Shoes follows with a percentage of 59.98 and is in turn followed by Metals and Metallic Goods, Machines and Machinery, and Woollen Goods, in which the percentages of industry product paid in wages are 55.99, 53.05, and 51.66, respectively. In Paper and Paper Goods, ranking next in this comparison, the percentage is 47.29, while lowest in the comparison is Worsted Goods, the percentage being 39.48. These percentages of industry product paid in wages are the complements of the percentages of industry product devoted to profit and minor



expenses, these two items aggregating 100 per cent, or the whole of the industry product.

In the following comparison the rank of the different industries for 1893, as regards the amount of industry product per \$1,000 of capital, is compared with the rank of the same industries for 1892, as derived from the report on Annual Statistics of Manufactures for that year :

1892.	1893.
Boots and Shoes.	Boots and Shoes.
Leather.	Metals and Metallic Goods.
Metals and Metallic Goods.	Leather.
Machines and Machinery.	Machines and Machinery.
Woollen Goods.	Worsted Goods.
Paper and Paper Goods.	Woollen Goods.
Worsted Goods.	Paper and Paper Goods.
Carpetings.	Cotton Goods.
Cotton Goods.	Carpetings.

In the above comparison, Boots and Shoes and Machines and Machinery retain the same position in each year. The places occupied by Leather and Metals and Metallic Goods, and Carpetings and Cotton Goods are reversed. Woollen Goods which ranked fifth in 1892 ranks sixth in 1893; Paper and Paper Goods which ranked sixth in 1892 ranks seventh in 1893; and Worsted Goods which ranked seventh in 1892 ranks fifth in 1893.

With respect to the average industry product per employé, the rank of the industries in each of the years appears in the following table :

1892.	1893.
Paper and Paper Goods.	Machines and Machinery.
Machines and Machinery.	Metals and Metallic Goods.
Leather.	Paper and Paper Goods.
Metals and Metallic Goods.	Boots and Shoes.
Boots and Shoes.	Leather.
Woollen Goods.	Woollen Goods.
Carpetings. "	Worsted Goods.
Cotton Goods.	Carpetings.
Worsted Goods.	Cotton Goods.

With the exception of Woollen Goods, every industry changed its position in 1893; Paper and Paper Goods fell from

first to third position in 1893 and Machines and Machinery rose from second to first place. Metals and Metallic Goods which ranked fourth in 1892 was second in 1893; Boots and Shoes rose from fifth in 1892 to fourth in 1893, while Leather dropped from third to fifth place. Worsted Goods ranked ninth in 1892 but ranked seventh in 1893, and Carpetings and Cotton Goods dropped from seventh and eighth, respectively, in 1892, to eighth and ninth, respectively, in 1893.

The next comparison relates to the percentage of industry product paid in wages, the industries ranking as follows in each year :

1892.	1893.
Worsted Goods.	Cotton Goods.
Boots and Shoes.	Leather.
Carpetings.	Carpetings.
Cotton Goods.	Boots and Shoes.
Machines and Machinery.	Metals and Metallic Goods.
Metals and Metallic Goods.	Machines and Machinery.
Leather.	Woollen Goods.
Woollen Goods.	Paper and Paper Goods.
Paper and Paper Goods.	Worsted Goods.

In this comparison, Carpetings alone retained the rank in 1893 which it held in 1892. Worsted Goods dropped from first place in 1892 to ninth in 1893. Boots and Shoes which ranked second in 1892 ranked fourth in 1893, Cotton Goods which ranked fourth in 1892 ranked first in 1893, Machines and Machinery and Metals and Metallic Goods changed places with each other in 1893, Leather which ranked seventh in 1892 ranked second in 1893 and Woollen Goods and Paper and Paper Goods which ranked eighth and ninth, respectively, in 1892, ranked seventh and eighth, respectively, in 1893.

We present a series of separate tables for the nine leading industries, for the purpose of comparison between the years 1892 and 1893, bringing forward for that purpose data contained in the table on pages 342 and 343. The first relates to Boots and Shoes.



*Boots and Shoes.* [Comparisons for 712 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$29,067,583	\$29,303,026
Value of goods made and work done (gross product), . . . .	\$103,873,098	\$92,740,686
Value of stock used and other materials consumed in production, .	\$62,667,535	\$55,028,688
Industry product (gross product less value of stock and materials),	\$41,210,563	\$37,711,993
Wages (labor's direct share of product), . . . . .	\$25,533,508	\$22,618,569
Profit and minor expense fund (industry product less wages), .	\$15,677,055	\$15,093,429
Percentage of industry product paid in wages, . . . . .	61.96	59.98
Percentage of industry product devoted to profit and minor expenses,	38.04	40.02
Percentage of profit and minor expense fund of capital invested, .	53.93	51.51

The percentages of industry product paid in wages in 1892 and 1893 are 61.96 and 59.98, respectively, a decrease being shown in the last named year. Of course, the percentage of industry product devoted to profit and minor expenses shows a corresponding increase, being 38.04 in 1892 and 40.02 in 1893. The percentage which this profit and minor expense fund forms of capital invested was 51.51 in 1893 as against 53.93 in 1892; that is, a smaller portion of the amount remaining in this industry, after eliminating the cost of stock, was devoted to wages in 1893 than in 1892, leaving a larger amount for the payment of expenses other than wages and stock, and for profit, and this amount formed a smaller percentage of the total capital in the industry in 1893 than in 1892.

A similar comparison for Carpetings follows :

*Carpetings.* [Comparisons for 11 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$7,823,754	\$7,993,248
Value of goods made and work done (gross product), . . . .	\$8,214,540	\$7,427,385
Value of stock used and other materials consumed in production, .	\$5,218,619	\$4,787,252
Industry product (gross product less value of stock and materials),	\$2,995,921	\$2,640,133
Wages (labor's direct share of product), . . . . .	\$1,823,229	\$1,589,019
Profit and minor expense fund (industry product less wages), .	\$1,172,692	\$1,051,114
Percentage of industry product paid in wages, . . . . .	60.86	60.19
Percentage of industry product devoted to profit and minor expenses,	39.14	39.81
Percentage of profit and minor expense fund of capital invested, .	14.98	13.15

The percentages of industry product paid in wages in this industry in 1892 and 1893 are 60.86 and 60.19, respectively,

a very slight decrease in the last named year. Eliminating wages, the fund devoted to profit and minor expenses rose from 39.14 in 1892 to 39.81 in 1893, and this fund formed but 13.15 per cent of capital invested in 1893, as against 14.98 per cent in 1892.

The next table presents a comparison for Cotton Goods.

*Cotton Goods.* [Comparisons for 149 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$119,652,351	\$118,855,744
Value of goods made and work done (gross product), . . . .	\$90,811,928	\$88,189,618
Value of stock used and other materials consumed in production, .	\$46,961,841	\$47,411,932
Industry product (gross product less value of stock and materials),	\$43,850,087	\$40,777,686
Wages (labor's direct share of product), . . . . .	\$25,515,747	\$25,268,510
Profit and minor expense fund (industry product less wages), .	\$18,334,340	\$15,509,176
Percentage of industry product paid in wages, . . . . .	58.19	61.97
Percentage of industry product devoted to profit and minor expenses,	41.81	38.03
Percentage of profit and minor expense fund of capital invested, .	15.32	13.05

Unlike the two industries previously presented, in Cotton Goods the percentage of industry product paid in wages increased in 1893 as compared with 1892, the percentages being 61.97 and 58.19, respectively. Of course, the percentages of industry product devoted to profit and minor expenses correspondingly decreased, falling from 41.81 to 38.03. The profit and minor expense fund formed 13.05 per cent of capital in 1893 as against 15.32 per cent in 1892.

The next table relates to Leather.

*Leather.* [Comparisons for 148 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$8,011,549	\$7,963,904
Value of goods made and work done (gross product), . . . .	\$18,644,270	\$15,548,822
Value of stock used and other materials consumed in production, .	\$11,891,499	\$11,033,354
Industry product (gross product less value of stock and materials),	\$6,752,771	\$4,515,468
Wages (labor's direct share of product), . . . . .	\$3,003,501	\$2,748,051
Profit and minor expense fund (industry product less wages), .	\$3,749,270	\$1,767,417
Percentage of industry product paid in wages, . . . . .	44.48	60.86
Percentage of industry product devoted to profit and minor expenses,	55.52	39.14
Percentage of profit and minor expense fund of capital invested, .	46.80	22.19

The greatest variation is found in this industry, the percentage of industry product paid in wages increasing from 44.48 per cent in 1892 to 60.86 per cent in 1893. The percentages of industry product devoted to profit and minor expenses, of course, declined correspondingly, falling from 55.52 to 39.14. The percentage which the profit and minor expense fund formed of capital invested was 46.80 in 1892 and 22.19 in 1893.

The next table relates to Machines and Machinery.

*Machines and Machinery.* [Comparisons for 335 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$30,811,473	\$32,917,618
Value of goods made and work done (gross product), . . . . .	\$29,960,988	\$27,975,359
Value of stock used and other materials consumed in production, . . . . .	\$11,465,690	\$10,124,464
Industry product (gross product less value of stock and materials), . . . . .	\$18,495,298	\$17,850,895
Wages (labor's direct share of product), . . . . .	\$10,107,731	\$9,470,094
Profit and minor expense fund (industry product less wages), . . . . .	\$8,387,567	\$8,380,801
Percentage of industry product paid in wages, . . . . .	54.65	53.05
Percentage of industry product devoted to profit and minor expenses, . . . . .	45.35	46.95
Percentage of profit and minor expense fund of capital invested, . . . . .	27.22	25.46

The percentage of industry product paid in wages in each year is nearly the same, and so, also, is the percentage of industry product devoted to profit and minor expenses, the variation being but a little over one per cent in either case. The percentage of profit and minor expense fund of capital invested declined from 27.22 in 1892 to 25.46 in 1893.

A comparison for Metals and Metallic Goods follows :

*Metals and Metallic Goods.* [Comparisons for 341 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$20,780,435	\$20,390,350
Value of goods made and work done (gross product), . . . . .	\$26,259,252	\$22,878,245
Value of stock used and other materials consumed in production, . . . . .	\$12,723,710	\$10,863,682
Industry product (gross product less value of stock and materials), . . . . .	\$13,535,542	\$12,014,563
Wages (labor's direct share of product), . . . . .	\$7,424,150	\$6,726,827
Profit and minor expense fund (industry product less wages), . . . . .	\$6,111,392	\$5,287,736
Percentage of industry product paid in wages, . . . . .	54.85	55.99
Percentage of industry product devoted to profit and minor expenses, . . . . .	45.15	44.01
Percentage of profit and minor expense fund of capital invested, . . . . .	29.41	25.93

Like the comparison for Machines and Machinery, the variation in the percentages of industry product paid in wages and devoted to profit and minor expenses, were slight, being a little over one per cent. The percentage of profit and minor expense fund of capital invested shows a decline from 29.41 in 1892 to 25.93 in 1893.

The facts for Paper and Paper Goods are shown in the next table.

*Paper and Paper Goods.* [Comparisons for 98 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$21,944,434	\$23,137,410
Value of goods made and work done (gross product), . . .	\$26,029,658	\$22,746,104
Value of stock used and other materials consumed in production, .	\$15,170,117	\$14,376,840
Industry product (gross product less value of stock and materials),	\$10,859,541	\$8,369,264
Wages (labor's direct share of product), . . . . .	\$4,269,230	\$3,957,802
Profit and minor expense fund (industry product less wages), .	\$6,590,311	\$4,411,462
Percentage of industry product paid in wages, . . . . .	39.31	47.29
Percentage of industry product devoted to profit and minor expenses,	60.69	52.71
Percentage of profit and minor expense fund of capital invested, .	30.03	19.07

In this industry, as in some of the others, the percentage of industry product paid in wages increased in 1893 as compared with 1892, the gain being from 39.31 to 47.29; while the percentage of industry product devoted to profit and minor expenses declined from 60.69 to 52.71. This fund was 30.03 per cent of capital invested in 1892 falling to 19.07 per cent in 1893.

The next table relates to Woollen Goods.

*Woollen Goods.* [Comparisons for 125 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$27,220,349	\$25,554,880
Value of goods made and work done (gross product), . . .	\$34,074,848	\$28,061,654
Value of stock used and other materials consumed in production, .	\$20,360,682	\$16,674,542
Industry product (gross product less value of stock and materials),	\$13,714,166	\$11,387,112
Wages (labor's direct share of product), . . . . .	\$6,661,085	\$5,833,015
Profit and minor expense fund (industry product less wages), .	\$7,053,081	\$5,504,097
Percentage of industry product paid in wages, . . . . .	48.57	51.66
Percentage of industry product devoted to profit and minor expenses,	51.43	48.34
Percentage of profit and minor expense fund of capital invested, .	25.91	21.54



In this industry also, we note an increase in the percentage of industry product paid in wages, the increase being from 48.57 to 51.66, matched by a corresponding decrease in the percentage of industry product devoted to profit and minor expenses, this percentage being 51.43 in 1892 and 48.34 in 1893. The percentages of profit and minor expense fund of capital invested in 1892 and 1893 were 25.91 and 21.54, respectively.

The final table relates to Worsted Goods.

*Worsted Goods.* [Comparisons for 20 Establishments.]

CLASSIFICATION.	1892	1893
Amount of capital invested, . . . . .	\$12,132,889	\$11,038,952
Value of goods made and work done (gross product), . . . .	\$17,328,062	\$15,528,227
Value of stock used and other materials consumed in production, .	\$12,239,108	\$9,948,697
Industry product (gross product less value of stock and materials),	\$5,088,954	\$5,579,530
Wages (labor's direct share of product), . . . . .	\$3,321,837	\$2,202,796
Profit and minor expense fund (industry product less wages), .	\$1,767,117	\$3,376,734
Percentage of industry product paid in wages, . . . . .	65.28	39.48
Percentage of industry product devoted to profit and minor expenses,	34.72	60.52
Percentage of profit and minor expense fund of capital invested, .	14.56	30.59

In this industry, the largest decrease yet noted in the percentage of industry product paid in wages is found. This percentage was 65.28 in 1892 and 39.48 in 1893, a variation of 25.80 per cent. This left a larger margin for the payment of profit and minor expenses in the last named year, the percentages of industry product devoted to this purpose being 34.72 in 1892 and 60.52 in 1893. This fund formed 30.59 per cent of capital in 1893 as against 14.56 per cent in 1892.

The returns permit the following condensed general statements as regards the years 1892 and 1893 for the 4,397 establishments :

#### CAPITAL INVESTED.

*The increase in capital devoted to production in 1893 as compared with 1892, in All Industries, amounted to 1.24 per cent. In connection with this statement it should be remembered that this does not necessarily imply an investment of more money in*

*productive enterprises; and when taken in connection with the other facts relative to the condition of the industries in the Commonwealth during the year, it is possible that while a statistical increase is shown, this increase is due to the value of stock in process of manufacture or to some of the items classed as capital, other than cash, as explained in the statement on page 286. In the nine leading industries, representing 62.35 per cent of all capital, as returned in 1893, and 55.37 per cent of the industrial capital of the Commonwealth, as returned in the Decennial Census of 1885, the following facts appear for the year 1893: In four of these industries, namely, Boots and Shoes, Carpetings, Machines and Machinery, and Paper and Paper Goods, an increase in capital is shown, amounting to 0.81 per cent in Boots and Shoes, 2.10 per cent in Carpetings, 6.84 per cent in Machines and Machinery, and 5.44 per cent in Paper and Paper Goods. In each of the other leading industries, five in number, the capital devoted to production shows a decrease in 1893 as compared with 1892, the percentages being as follows: Cotton Goods 0.67, Leather 0.59, Metals and Metallic Goods 1.88, Woollen Goods 6.12, and Worsted Goods 9.02.*

#### STOCK USED.

*In All Industries, considered in the aggregate, the value of stock used in 1893 shows a decrease as compared with 1892 of 7.32 per cent. In eight of the nine leading industries, in which the aggregate value of stock used amounted to 51.65 per cent of all the stock used, as returned in 1893, and 46.25 per cent of all stock used, as returned in the Decennial Census of 1885, the following percentages of decrease appear: Boots and Shoes, 12.19; Carpetings, 8.27; Leather, 7.22; Machines and Machinery, 11.70; Metals and Metallic Goods, 14.62; Paper and Paper Goods, 5.23; Woollen Goods, 18.10; and Worsted Goods, 18.71. A slight increase in the value of stock used appears in Cotton Goods, amounting to 0.96 per cent only.*

#### GOODS MADE.

*The aggregate value of goods made in All Industries in 1893 as compared with 1892 shows a decrease in value of 8.10 per cent. In each of the nine leading industries, which, in the*



aggregate, returned 54.67 per cent of the value of goods made, as returned in 1893, and 47.60 per cent of the value of all goods made, as returned in the Decennial Census of 1885, the following percentages of decrease appear: Boots and Shoes, 10.72; Carpetings, 9.58; Cotton Goods, 2.89; Leather, 16.60; Machines and Machinery, 6.63; Metals and Metallic Goods, 12.88; Paper and Paper Goods, 12.61; Woollen Goods, 17.65; and Worsted Goods, 10.39.

#### PERSONS EMPLOYED.

In 1892 the average number of persons employed in the 4,397 establishments, represented in All Industries, was 306,203, and the average number of persons employed in the same industries in 1893 was 293,169, a decrease of 4.26 per cent. The number of persons employed at the periods of employment of the greatest number was 344,004 in 1892, and 345,388 in 1893, an increase of 0.40 per cent, a very slight variation; while the number employed at the periods of employment of the smallest number in 1892 was 267,168, and in 1893, 222,370, a decrease of 16.77 per cent. The range of unemployment was considerably greater in 1893 than in 1892, the number unemployed at some period of longer or shorter duration being 123,018 in 1893 as against 76,836 in 1892, an increase of 60.10 per cent.

In the nine leading industries previously mentioned, the following percentages of decrease in the average number of persons employed are found: Boots and Shoes, 7.10; Carpetings, 7.82; Cotton Goods, 0.28; Leather, 5.34; Machines and Machinery, 2.69; Metals and Metallic Goods, 7.27; Paper and Paper Goods, 4.23; and Woollen Goods, 7.27. Worsted Goods exhibits the slight increase of 0.32 per cent.

#### WAGES PAID.

The total amount paid in wages in the establishments represented in the 75 industries considered, decreased 7.75 per cent in 1893 as compared with 1892. In the nine principal industries the following percentages of decrease appear: Boots and Shoes, 11.42; Carpetings, 12.85; Cotton Goods, 0.97; Leather, 8.51; Machines and Machinery, 6.31; Metals and

*Metallic Goods, 9.39; Paper and Paper Goods, 7.29; Woollen Goods, 11.68; and Worsted Goods, 33.69.*

*The average yearly earnings per individual, without regard to sex or age, employed in the 75 industries, were \$450.59 in 1892, declining to \$434.17 in 1893, a decrease of 3.64 per cent. The range from highest to lowest average yearly earnings was from \$752 to \$299.08 in 1892, and from \$733.73 to \$244.08 in 1893. The higher earnings ruled in the industries demanding greater skill and employing males chiefly, and the lower in factory industries employing a large proportion of females and young persons.*

#### PROPORTION OF BUSINESS DONE.

*The average proportion of business done reached 69.38 per cent in 1892 and 59.18 per cent in 1893, of the full productive capacity of the 4,397 establishments, a decrease of 14.70 per cent.*

*The average number of days in operation was 297.83 in 1892 and 277.36 in 1893, a decrease of 6.87 per cent.*

*The summaries just presented emphasize the anomalous condition of the industries of the Commonwealth during the year 1893 owing to the industrial depression. While it is true that a slight increase in capital invested appears, it is probably a figurative increase only, and explained by the remarks relating to capital on page 286, to which we have before referred. In each of the other elements considered, namely, value of stock used, value of goods made, average number of persons employed, aggregate amount of wages paid, average yearly earnings per individual, proportion of business done, and average number of days in operation, a decline appears, when All Industries are considered in the aggregate, in 1893 as compared with 1892; and with the exception of a small percentage of increase in the value of stock used in Cotton Goods and in the average number of persons employed in Worsted Goods, a decline is shown in each of these elements in each of the nine leading industries.*

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# INDUSTRIAL CHRONOLOGY.

1893.



## INDUSTRIAL CHRONOLOGY — 1893.

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**Abington.** In February, Abington Shoe Manufacturing Co. formed. *May.* New 80 horse power boiler set up in the Poole factory. — Thompson Bros., shoes, discontinued business; no successor. *September.* Gasoline plant put in Buffum's machine shop. — J. B. Lewis Co., shoes, succeeded by Henry Tucker; business moved to Avon. *November.* E. P. Reed's planing mill damaged by fire. — E. L. Sprague, shoes, shut down from July to November, inclusive.

**Acton.** In February, hoop shop of Allen Smith damaged by fire. *March.* Fletcher's shoe factory destroyed by fire. *July.* Overalls factory shut down. — No. 2 mill of American Powder Co. demolished by explosion. *December.* American Powder Mills damaged by explosion.

**Adams.** In January, new Berkshire No. 2 Mill started up with 100 hands. *February.* The 150 horse power engine of Renfrew Manufacturing Co. set in motion for first time. *April.* L. L. Brown Paper Co. removed two small boilers from mill and put in large one. — Renfrew Manufacturing Co. removed 50 looms from upper to new lower mill; whole plant to be run on table cloths. *May.* B. F. Phillips & Son, woollens, incorporated under name of Phillips Woollen Co.; capital stock \$50,000. *July.* Butler & Son leased property for purpose of starting grist mill. — Plunkett Cotton Mill ran but four days a week. *August.* Mills of Renfrew Manufacturing Co. closed for a week. — Linnett Shirt Co. shut down indefinitely. — L. J. Follett & Sons, lime, began building two new kilns, capacity 1,400 barrels each. *September.* Adams Bros. Manufacturing Co.'s cotton warp mills shut down for two weeks to put in two new water wheels. — Plunkett Mills shut down indefinitely. — L. L. Brown Paper Co. equipped plant with sprinklers and other fire apparatus. — Berkshire Cotton Manufacturing Co. posted notices in mills of reduction in wages to take effect in October. — Renfrew Manufacturing Co. and L. L. Brown Paper Co. purchased 1,000 gallon pump to be used in supplying water for the paper and gingham mills. — Linnett Shirt Co. resumed operations after two months' suspension. *October.* Renfrew Manufacturing Co., gingham, ran but three days per week. — L. L. Brown Paper Co. shut down two weeks for repairs. — Adams Bros. Manufacturing Co. ran overtime in all departments. — New dynamo placed in Renfrew Manufacturing Co.'s mill No. 5. — W. C. Plunkett & Sons resumed business after partial shutdown of six weeks. *November.* Linnett Shirt Factory purchased by W. C. Plunkett & Sons; to be known as Greylock Shirt Co. — Berkshire Cotton Manufacturing Co. ran on full time. — Renfrew Manufacturing Co. reduced wages.

**Amesbury.** In January, Briggs Carriage Co. resumed operations after brief shutdown for inventory. — Cutters at Amesbury File Works worked evenings. — A 15 horse power motor set up in Lockwood & Brown's wheel factory. — M. B. Thornton bought business of A. L. Walsh Manufacturing Co. — Carriage and repair shop of Thomas Granigan damaged by fire. *February.* Machine plant of T. D. Parry & Co. sold at auction. *March.* New England Chemical Co. established. *April.* Trimming department at Amesbury Hat Factory enlarged. — Mill of A. W. Bartlett destroyed by fire. *May.* Repairs and improvements made at W. G. Ellis & Sons' car shop. *June.* Partnership of Adams & Pettingill, shoes, renewed and continued from June 30, 1893, to July 1, 1895. — Amesbury Electric Light, Heat, and Power Co. increased capital \$10,000. *August.* G. H. Elkins began manufacture of patent carbonized chimney caps, etc. — Hamilton Woollen Co. resumed operations after week's shutdown. — Merrimac Hat Co. started up after two weeks' shutdown. *September.* Ellis Car Works resumed operations. — Bottling establishment of Geo. Phillips destroyed by fire. *October.* Hamilton Woollen Co. started up on full time, with reduction in wages. — Edward



H. Sargent, carriages, died, aged 44 years. *November.* Dennett & Clark, carriages, employed no workmen during October and November.

**Amherst.** In April, Chandler & Pease, machinists and steel engravers, dissolved partnership; business continued by Edwin Pease. — Grist mill of H. M. Whitaker destroyed by fire. *July.* G. B. Burnett & Son and the Hills Company closed their hat factories for the summer; resumed operations in October. *August.* Levi Dickinson completed new storehouse at his box factory.

**Andover.** In February, H. H. Church and W. S. Donald formed partnership for manufacture of printers' ink; business to be conducted at works of W. C. Donald & Co. *May.* Smith & Dove Manufacturing Co. put in new boiler. *July.* New machinery added to Marland Woollen Mills. *August.* Tow department of Smith & Dove Manufacturing Co.'s mill shut down indefinitely. — Factory of Craighead & Kintz Manufacturing Co. started in part with 100 hands. — Bradlee's Woollen Mill resumed operations after two weeks' shutdown. — Smith & Dove Manufacturing Co. began erection of new boiler and engine house. *September.* Marland Woollen Mills resumed operations after shutdown. — Tailoring establishment of Jos. M. Bradley destroyed by fire. *October.* Flax department in Smith & Dove Mills resumed operations in full. *November.* F. L. Case Paper Co. added new drying machine.

**Arlington.** In December, strike occurred among employes of C. J. Raymond & Co., show-cases.

**Ashburnham.** In January, R. J. Brooks changed location of his basket manufactory. — Whitney's cane shop shut down for a few weeks. *June.* Chandler & Hutchins burned out.

**Ashland.** In September, T. A. Whicher & Co., boots and shoes, started up.

**Athol.** In February, new saws and automatic matcher placed in H. H. Rice's box factory. — C. G. Allen & Co.'s mill damaged by bursting of grindstone. — Tank erected on roof of Hill & Greene's new shoe factory as part of new fire protecting apparatus. — Work begun on addition to Bates Bros.' wallet shop. *March.* L. S. Starrett, tools, bought half interest in manufacturing plant of F. J. Gay of Providence, R. I., maker of milling and forming cutters. — Miller's River Manufacturing Co. took possession of new office building. — Shops of Geo. S. Brewer, wooden boxes, destroyed by fire. *April.* Lewis Sanders, kits and kegs, increased force to 90 men. — Sherwood Bros. removed steam mill to new site between Petersham and Barre. — G. S. Brewer began rebuilding burned box mill. — New machinery set up in Ellis & Son's sash and blind factory. — Water wheel at Bennett & Van Valkenburg's cotton mill repaired and operations resumed. — D. E. Tebo's satinnet mill destroyed by fire; to be rebuilt. *May.* Swift & Co. began erection of cold storage plant. *August.* Factory of C. M. Lee, shoes, shut down in order to put in 150 horse power engine. — Bates Bros. shut down wallet shop for three weeks. — L. S. Starrett, tools, resumed operations with reduction in wages. *September.* C. M. Lee started up after a shutdown of five weeks. — Break in machinery at Ellis & Son's factory repaired and operations resumed. — Extension begun to King Bros.' shoddy mill and new machinery added. — New steel smoke stack placed in position at Bates Bros.' wallet factory. *October.* Bennett & Van Valkenburg, cotton warp, started up on full time. *November.* Lewis Sanders' saw and stave mill damaged by fire. — King Bros. completed addition to shoddy mill. — D. E. Tebo began erection of new four set mill. — L. S. Starrett, tools, doubled capacity of factory and added new machinery. *December.* M. L. Lee & Co.'s shoe factory shut down. — L. S. Starrett, tools, completed new addition to plant; building 160 x 40 feet, four stories, with extension 70 x 44 feet.

**Attleborough.** In January, Hebron Manufacturing Co. purchased \$40,000 worth of machinery for carding department. — Home Bleachery & Dyeing Co.'s buildings destroyed by fire. *February.* Work begun on foundation of new factory for W. H. Wilmarth & Co., jewelry; to be of wood, 200 x 40 and 750 x 27 feet, two stories. — Mossberg Manufacturing Co. leased shop and purchased plant of Walcott & Draper. *March.* Manufacturing jewelry business of Wilmarth, Holmes, & Co. purchased by G. F. Pierce and F. L. Torrey; business to be conducted at same place and firm name not to be changed for present. — New pumping apparatus in water works started up for first time. — New engine set up in Bates & Bacon's watch case factory. *April.* Addition made to factory of J. M. Bates. *May.* Repairs made at E. A. Robinson's jewelry manufactory. *June.* Regnell, Bigney, & Co., jewelry, employed additional female operatives. — Wool scouring establishment of Lithendale & Co. destroyed by fire. *July.* Bates & Bacon, jewelry, ran overtime to keep orders filled. *August.* E. A. Robinson's power



house resumed operations, damaged boiler having been repaired. — Cotton mills of Hebron Manufacturing Co. shut down indefinitely. — Slade & Whipple completed addition to their refinery. *September.* Break in engine at Hebron Manufacturing Co.'s mill caused brief shut-down for repairs. — Improvements made about Gold Medal Braid Co.'s factory. — Mossberg Manufacturing Co. removed machinery to new quarters in Bates Building. — W. H. Wilmarth & Co. started up new jewelry factory with 150 hands. *November.* Elmwood Manufacturing Co. established to manufacture baking powder. — B. B. & R. Knight made improvements about mills. — Attleborough Machine Co. continued overtime work. — Mossberg Manufacturing Co. occupied new factory.

**Auburn.** In August, John Warren & Sons, tanners, burned out.

**Avon.** In January, Williams, Kneeland, & Co., shoes, of Braintree, who were burned out in September, 1892, returned to that place, factory having been rebuilt. *November.* Avon Shoe Co. established to manufacture boots and shoes, succeeding J. B. Lewis Co. and Henry Tucker.

**Ayer.** In March, plant of Ayer Furniture Co. sold to Western parties; to be located elsewhere. *June.* Nashoba Manufacturing Co. began erection of new mill, 160 x 50 feet, for manufacture of a new mordant; to be operated by water power.

**Barre.** In May, woollen mills of Crossly Manufacturing Co. destroyed by fire; to be rebuilt.

**Bellingham.** In January, new looms added to Caryville Woollen Mill. *August.* Scarcity of water caused brief shutdown of Norfolk Woollen Mill. *September.* Satinet department of Caryville Mill shut down. — Ray Woollen Mills started up with reduction in wages paid to weavers. *November.* Caryville Woollen Mill started up after shutdown of eight weeks. — Ray Woollen Mills reduced running time. — Steam saw mill of Thomas G. Thain resumed operations.

**Berlin.** In July, John H. Parker's shoe factory closed for a few weeks.

**Beverly.** In January, Woodbury Bros. took possession of new factory. — Seth Norwood Shoe Co.'s factory started up after shutdown for inventory. — R. Keddle changed location of his carriage trimming establishment. *February.* C. S. Batchelder established to manufacture shoes. — Motive power in stair factory of Harry St. Clair changed from steam to electricity. — Flint, Lunt, & Co. established to manufacture shoes. — *Beverly Times* building destroyed by fire. — Strike occurred among employes in J. F. Carter & Co.'s oil clothing works. *March.* Board of Trade Building Association decided to erect five-story brick shoe factory, 110 x 40 feet, to be occupied by Millett, Woodbury, & Co.; completed in April. — Geo. Fuller, shoes, admitted F. H. Downs and name changed to Geo. Fuller & Co. — Machinery in factory of late firm of Cressy & Obear, shoes, sold and removed to North Baltimore, Ohio. — Woodbury Bros. put in 10 lasting machines. *April.* Carr & Spencer Bros. formed to manufacture shoe stock. — Smith & Dixon, machinists, added new machinery for doing heavy work. — Tuck & Hassett, shoes, enlarged cutting room. *June.* Raymond & Mæder and Foster Bros., shoes, consolidated their business. — Fires for month: Isaiah S. Kenny's heel cutting shop, A. P. Thissell's shoe factory, and Mrs. M. E. Walters' stitching room. *July.* Frank Woodbury's shoe factory shut down indefinitely. — J. H. Baker & Co. started up shoe factory. — Establishment of M. A. Kenney & Co., heels, damaged by fire. *September.* W. C. Morgan retired from firm of Clark Bros. & Morgan, shoes. *October.* Lynch Bros., morocco, purchased Nevins Bagging Co.'s plant at Salem; to remove business to that city. — Beverly Carriage Co. began to remodel its building. — Tuck & Hassett, shoes, shut down for one month. *November.* Conway & Co., taps and strip leather, established. — I. M. Munroe, Marblehead, leased Masters & Walker's shoe factory and removed plant to this place. — Tuck & Hassett, shoes, dissolved; business continued by D. J. Hassett & Co. — Hobbs & Smith organized to manufacture heels. — Consolidated Lasting Machine Co. resumed operations. — Fires for month: Melville E. Gray's saw-mill and morocco manufactory of McGowan & Dolan. *December.* Frank Woodbury, shoes, shut down.

**BillERICA.** In June, capacity of Talbot Woollen Mills enlarged. *August.* Talbot Woollen Mills shut down for two weeks. *September.* Mills of Faulkner Manufacturing Co. shut down for two weeks. — Talbot Woollen Mills resumed operations. *November.* Faulkner Manufacturing Co. resumed operations.

**Blackstone.** In January, cigar manufactory of Samuel Fairbrother destroyed by fire. *February.* New creels placed in spinning frames at Blackstone Manufacturing Co.'s cotton mill. — Improvements made about Lawrence Felting Co.'s mill. *March.* Strike occurred among dresser tenders in Blackstone Woollen Mill. *April.* Woonsocket Rubber Co. voted to go into rubber combination known as United States Rubber Co. — Lawrence Felting Co.'s mills shut down one week for repairs. *May.* Lawrence Felting Co. and Woonsocket Rubber Co. obliged to suspend operations on account of high water. — New shafting set up in No. 1 mill of Blackstone Woollen Co. — Storage shed of Blackstone Woollen Co. destroyed by fire. *June.* New woollen mill of Spencer & Davis started up. — No. 1 mill of Blackstone Woollen Co. resumed operations on Summer time schedule. — Blackstone Manufacturing Co. put in new patent slubbing machine which coils the roving in cans instead of winding on spools. *July.* Blackstone Manufacturing Co. sank artesian well in mill yard for water for drinking purposes. — Evans, Seagrave, & Co. closed woollen mills. — Foundation started for vulcanizing rubber factory, 200 x 46 feet, for Woonsocket Rubber Co. *August.* H. T. Merriam's new foundry plant started up for first time. — Work begun on addition to Lawrence Felting Co.'s mill. — Lawrence Felting Co. and calender rooms of Woonsocket Rubber Co. resumed operations. *September.* No. 1 mill of Blackstone Woollen Co. ran but three days a week. — Blackstone Manufacturing Co. gave notice of reduction in wages, to take effect September 25. — Blackstone Manufacturing Co.'s cotton mills shut down for one week on account of low water. *October.* Blackstone Cotton Mill ran overtime to make up for time lost on account of low water. *December.* New boilers set up in Lawrence Felting Co.'s mill. — Blackstone Cotton Mill ran on short time owing to low water.

**BOSTON.** [City Proper.] In January, Excelsior Umbrella Manufacturing Co. merged into The Umbrella Co., with headquarters in New York City. — Charter of incorporation granted to Brown Electric Co.; capital stock \$10,000. — Hills, Turner, & Co., Lambert Bros., and R. Sherburne, glass manufacturers, formed a syndicate to be known as Boston Plate and Window Glass Co.; capital stock \$600,000. — Kearney-Cutten Dressing Co., leather dressing, established. — Strike occurred among employes of Israel Friedman. — Fires for month: Walker & Pratt Manufacturing Co., stoves and furnaces; Ashton Valve Co.; Emil Meyer, pomade; and Morris, Dean, & Co., clothing. *February.* G. W. & F. Smith's machine shops leased for term of years to Augustus P. Martin of Lynn, for manufacture of boots and shoes. — Co-partnership existing under name of Kohler Furnace and Steam Heating Co. dissolved; succeeded by limited co-partnership under same name. — New companies established: Puritan Manufacturing Co., shoe machinery, capital stock \$26,000; Hatch Wall Flashing Co., metal flashings, capital stock \$5,000; Curtis & Pope Lumber Co., capital stock \$140,000. — Fires for month: Building occupied by A. W. Clapp, boots and shoes; Geo. F. Daniels & Co., slippers; Simons, Hatch, & Whitten, woollen underwear; Winthrop Square Clothing Manufacturers; Stearns Stool Co.; C. P. Riley & Co., woollen and worsted machinery. *March.* Foundation begun for new manufacturing building for C. L. Hauthaway & Sons; buff brick, granite, and terra cotta, 100 x 40 feet, five stories. — New corporations established: G. W. Dows Co., soda water apparatus, capital stock \$30,000; G. M. Corbett Co., furniture and novelties, capital stock \$6,000; Sander Musical Instrument Co., capital stock \$30,000; Tuhular Rivet & Stud Co. — J. H. Thomas, formerly of Gardner & Thomas, Haverhill, opened factory for manufacture of men's embroidered slippers. — Fires for month: Lariat Manufacturing Co.; Day, Callaghan, & Co., cloaks; Richardson, Howe, & Lovejoy, ladies' wrappers; David Knox & Son, shoe machinery; J. H. Fitz, ladies' wrappers; A. L. Perkins & Co., shoe tools; S. B. Rogers & Co., leatheroid trunks and bags; Globe Buffer Co.; Flagg Manufacturing Co.; Walter S. Barnes, boxes; and Baxter, Stoner, & Schenkelberger, cut soles and taps. — Strikes for month: Garment pressmen employed by Contractor Rosenberg; Employes of Hall Carriage Co., A. C. Judkins & Co., A. M. Wood Co., Ferd. F. French & Co., Hiram Nash, and D. P. Nichols & Co., carriages; and 350 plasterers' tenders. *April.* Swain-Fuller Manufacturing Co. removed to new quarters. — Amasa W. Bailey, billiard tables, died, aged 73 years. — S. O. Aborn, hatter, stopped manufacturing; no successor. — Strikes for month: Employes American Automatic Fire Alarm Co.; West End R.R. Co. (carpenters); Edison Electric Light Co. (wiremen); and carpenters, lathers, riveters, and boilermakers employed by various firms. — Fires for month: Standard Cordage Co., Everett Specialty Manufacturing Co., and Weiss & Schmidt. *May.* J. D. & M. Williams succeeded by Otis E. Weld & Co. — National Cordage Co. decided to increase preferred stock \$2,500,000. — Walter S. Barnes, paper boxes, leased new rooms. — Boston & Bay State Die Co., cutting dies and raw hide mallets, purchased by J. E. Farrar, formerly of Danvers; business continued under same name. — Whittemore, Woodbury, & Co., leather dressing, succeeded by Whittemore-Woodbury Co., incorporated. — New companies established: Hoxie Mineral Soap Co., capital stock \$6,000; Perkins, Joyce, & Co., boots and shoes; Warner Boot & Shoe Co., capital stock \$125,000; The Frank Shoe Co., capital stock \$75,000. — Day, Callaghan, & Co.,

cloaks, removed to New York City. — Strikes for month: Employés of Ingalls & Kendrick, steam fitters, and L. E. Merry, baker. — Fires for month: Boston Brass Works and Ashton Valve Co. *June.* Beach & Clarridge Co., flavoring extracts, acids, etc., incorporated; capital stock \$60,000. — Geo. K. Paul & Co., brass and iron goods for steam, water, and gas purposes, leased two buildings for long term. — Erection of box factory begun by Geo. H. Dickerman; brick, two stories. — New firms established: Kennedy & Auerbach, dongola manufacturers; Boston Enterprise Manufacturing Co., machinery, etc., capital stock \$23,000; Voorhees Electrical Co., electrical appliances, capital stock \$5,000; Berlin Falls Fibre Co., chemical fibre, wood pulp, etc., capital stock \$400,000. — Strike occurred among employés of Contractor Rothman. — Fires for month: E. F. Pierce & Co., chairs, and Herman Flick, paper boxes. *July.* Work begun on factory for S. D. Hicks & Son; to be of pressed brick, iron, and copper, 75 x 70 x 60 feet, five stories. — Cigar factory of Miller & Dendron destroyed by fire. *August.* Fisher Axle Co. began manufacturing. — Wm. S. Blake, of Blake Bell Co., died, aged 75 years. — Office of treasurer of Washington Mills Co., Lawrence, removed to this city. — Derby & Kilmer Desk Co. consolidated with Pond Desk Co.; continued as Derby, Kilmer, & Pond Desk Co. — Boston Belting Co. completed for Linden Paper Co., Holyoke, one of the widest rubber belts ever made in this country. *September.* Pope manufacturing building equipped with safety elevator gate. — Strikes for month: Plymouth Rock Pants Co. (cutters) and employés of Seth W. Fuller, electrical construction. *October.* George B. Hardy, doors, sashes, and blinds, died, aged 68 years. — Strikes for month: Rand-Avery Supply Co. (cylinder feeders) and Boston Telegram Co. (printers). — Fires for month: J. H. Roberts & Co., machinery; A. Cohen & Co., ladies' underwear; Derby, Kilmer, & Pond Desk Co.; and Boston Wrapper Manufacturing Co. *November.* A. M. Wood Co., carriages and wagons, shut down one month owing to fire. — Hugh Campbell Co. incorporated to manufacture shoe findings. — Lang & Jacobs Co. established to manufacture cooperage articles; capital stock \$5,000. — J. W. Kennan Co. incorporated to manufacture leather; capital stock \$40,000. — E. F. Delaney, shoe knives, moved business from Framingham to this city. — Strikes for month: Employés of G. C. Dunklee & Co. and other tin plate and sheet iron workers. — Fires for month: Winslow T. Page & Co., slippers; Rossney Manufacturing Co.; J. E. Wall, bamboo goods; A. M. Wood Co., carriages and wagons; Johnson & Glover, papier maché goods; Webster Dress Form Manufacturing Co.; New England Chemical Co.; and Franklin Typewriter Manufacturing Co. *December.* Geo. H. Davis began manufacture of leggings and over-gaiters. — Boston Oregon Mast Co. organized to manufacture masts and other woodwork; capital stock \$30,000. — Quimby Brush Co. established to manufacture machine brushes. — Fires for month: Guindon & Durant, coppersmiths; Elisha Betts, stairs; Timothy Wilson, cases; Bosch & Goldstein, caps; F. Schwender, clothing; Morris I. Cohen, caps; Henners Bros., clothing; Boston Chair Co.; M. W. Cain & Co., furniture; G. W. Bent, spring beds; and Standard Wire Mattress Co.

[Brighton.] In March, strike occurred among employés in Bowker Fertilizer Works.

[Charlestown.] In October, manufacture of shirts begun at State Prison. — John C. McManus, sailmaker, died. *December.* Osgood & Hart's iron foundry damaged by fire.

[Dorchester.] In December, Darius Eddy, refrigerators, died, aged 84 years.

[East Boston.] In March, strike occurred among employés of P. Healey, carriages. *April.* Finishing department of Boston & Lockport Block Co., shipblocks and pulleys, damaged by fire. — Strikes for month: employés of Wm. Gilchrist, Sr., carriages, and blacksmiths and boiler-makers employed by Atlantic Works, E. Hodge & Co., and Lockwood Manufacturing Co. *August.* Strike occurred among employés of Bardwell, Anderson, & Co., furniture. *November.* New building completed at Atlantic Works and new machinery added.

[Jamaica Plain.] In January, Benj. M. Wedger, fireworks, died, aged 65 years; manufacturing business discontinued by heirs. *June.* Strike occurred among employés of Sturtevant Blower Co. *August.* Wages of moulders at Sturtevant Blower Works reduced. *October.* Employés in Sturtevant Blower Works suspended owing to depression in business.

[Neponset.] In December, Putnam Nail Works destroyed by fire.

[Roslindale.] In October, Williams Manufacturing Co. began manufacture of surgical instruments. — Frampton's morocco factory resumed operations in full.

[Roxbury.] In January, Albert Howard, general manager of E. Howard Watch & Clock Co., died, aged 60 years. *February.* Excavation begun for addition to Smith & Engle's brewery; brick and iron, 45 x 52 feet, three stories. *March.* Foundation begun for picture frame factory for T. W. Norman; brick, 100 x 40 feet, two stories. — Strike occurred among employés of J. P. & W. H. Emonds and John A. Scott & Son, carriages. *May.* Mills of Roxbury Carpet Co. shut down on account of dissatisfaction among employés as to hours of labor. *June.* New England Piano Co.'s factory shut down in part to repair steam box. — Excavation begun for factory for Eastern Electric Cable Co.; brick and freestone, 37 x 59 x 108 feet, three stories. — Strike occurred among teamsters of Continental Brewery. *August.* New England Piano



Co. closed for repairs. *September.* Roxbury Carpet Co. shut down for one month owing to lack of orders. — Pearson Cordage Co. enlarged plant by addition of 1,000 horse power engine. — New department for drop forging added to plant of Trimount Manufacturing Co. — Erection of new thread and twine factory for E. J. W. Morse & Co. of Easton begun; brick, 134 x 50 feet, four stories. *October.* Strike occurred among employes of American Brewery Co. and New England Piano Co. — Roxbury Carpet Co. ran on quarter time. *November.* O. F. Grant established manufacture of electrical goods. — Roxbury Carpet Mills shut down. — Strike occurred among employes of G. S. Guyer & Co., hats. *December.* Roxbury Carpet Co. resumed operations with small force.

[South Boston.] In January, Wimple Bar Shoe Co. removed plant to Lawrence. — Sunderland & Ogden's file factory damaged by fire. *February.* Bay State Iron Co. sold out. *March.* Strike occurred in spinning room of Boston Cordage Co., and among employes of P. McMurray, carriages. *April.* Camphor refining establishment of West, Jenney, & Co. damaged by fire. — Strikes for month: Boilermakers employed by R. Minton & Co., Cunningham Iron Works, James Russell Boiler Works, and City Point Iron Works. *May.* Boston Shoe Manufacturing Co. established. *June.* Strike occurred among employes of Moore & Wyman, machinists. *July.* Erection of factory begun by Barber Asphalt Paving Co.; corrugated iron, 87 x 37 feet, one and two stories. — Foundation of machine shops for A. & J. M. Anderson started; brick and iron, 75 x 125 and 60 x 105 feet, one story. *August.* One of the machine shops of Bay State Iron Co.'s plant damaged by fire. — Wrought Iron Casting Co. shut down and business discontinued. *October.* Towne Manufacturing Co. moved plant to Kennebunk, Me. — Strike occurred in John Dodowski's tailoring establishment.

**Bradford.** In March, Alfred Ordway, shoes, died, aged 81 years. *July.* Shoe factory of Knipe Bros. closed indefinitely. *December.* Plans drawn for L. W. Larkin's heel factory; to be of wood, 125 x 30 feet, one story.

**Braintree.** In January, Braintree Wood & Lumber Co. resumed operations. — Williams, Kneeland, & Co., shoes, started up in new factory. *February.* B. H. Woodsum Co. established to manufacture nails, etc.; capital stock \$15,000. — Strike occurred among coat makers in Columbia Rubber Co. *May.* W. S. Soule & Co., rawhide trunks, removed to Brockton.

**Bridgewater.** In February, Richard W. Cone & Co., shoes, formed limited partnership; capital \$5,000. *April.* Bridgewater Paper Co.'s mill ran overtime. *November.* Eagle Cotton Gin Factory resumed operations.

**BROCKTON.** In January, Herbert & Rapp Co. changed to Hub Gore Makers, and absorbed the factory of Dean, Chase, & Co., Rockland, and the shoe gore department of T. Martin & Bro. Manufacturing Co. of Chelsea. — G. G. Snow, shoes, began work on addition to factory. — Terry, Ware, & Alley, boots and shoes, built water tank upon roof of factory. — Co-partnership between Jas. & Chas. J. Means dissolved, and new partnership formed by C. J. Means and F. W. Elms under name of Means & Co. — Moyer, Habig, & Dolan, boots and shoes, leased portion of old Douglas shoe factory. — T. D. Barry & Co., shoes, began work in new factory. — Monarch Rubber Co. bought out Norfolk Rubber Co. of Stoughton; to remove machinery to this city. — Cutters and stitchers at Standard Rubber Works began work. — Additions completed to shoe factories of Edwin Keith, C. S. Pierce, and Churchill & Alden. — Capacity of N. C. Ruberg's steel shank factory doubled. — Albion H. House established to manufacture shoe stays. — Factory of E. L. Bonney, shoe boxes and packing cases, damaged by fire. *February.* T. A. Norris Machine Co. moved into new office building. — New twin treeing machines placed in W. L. Douglas Shoe Co.'s factory. — Terry, Ware, & Alley added four new lasting machines and equipped factory with automatic sprinklers. — Howard & Foster, shoes, made improvements and increased facilities. — Another addition built to Churchill & Alden's shoe factory. — Work begun on new factory, 65 x 30 feet, for J. E. Peckham & Co., shanks. — R. B. Grover & Co., shoes, started up after stocktaking. — M. Burns established to manufacture shoes. — McCarthy, Sheehy, & Kendrick Co., shoes, incorporated; capital stock \$20,000. — Strike occurred among mackintosh makers in Standard Rubber Works. *March.* Reynolds, Drake, & Gabell decided to build addition to shoe factory. — Niles & Wilbar added new lasting machines. — Work begun on foundation of a new brick shoe factory. — Churchill & Alden, shoes, shut down for three days while moving into new addition. — E. R. Laird & Co. added several pasteboard shank machines. — Barrows Shoe Co. discontinued business. — Shoe factory of Enos H. Reynolds damaged by fire. *April.* Dorey & Lachapelle began erection of foundry building, 80 x 35 feet, for manufacture of gray-iron machinery castings. — Shoe box manufacturers formed combination for regulation of prices. — Enos H. Reynolds completed repairs on factory and resumed operations. — Woodward & Wright, lasts, added new machinery. — Work begun on new factory for Brockton Last Co.; wood, 200 x 35 feet, four stories.

*May.* O. A. Miller's plant for manufacture of shoe treeing machinery completed; main building of wood, 100 x 35 feet. — Brockton Iron & Brass Foundry resumed operations. — W. S. Soule & Co., formerly of South Braintree, removed rawhide trunk factory to this place. — Geo. V. Scott added new room to machine shop and set up new machinery. — Foundation started for A. M. Herrod & Co.'s new shoe factory; wood, 200 x 35 feet, four stories. *June.* Fast Black Co., blacking manufacturers, incorporated; capital stock \$10,000. — Phinney & Richardson, shoes, shut down indefinitely. — I. P. Gayner began manufacture of shoe stays as successor to Brockton Stay Co. *July.* Tack works of W. W. Cross & Co. destroyed by fire; to be rebuilt. — Smith & Wade, shoe trimmings, enlarged plant by new building 100 x 37 feet. — L. C. Bliss & Co. made improvements and added new machinery to shoe factory. — M. P. Clough & Co., shoes, removed plant to factory formerly occupied by Emerson, Weeks, & Co. — G. E. Keith's shoe factory started up. — J. M. O'Donnell & Co. started up their enlarged shoe factory. — Tuck Manufacturing Co., shoe tools, built new tempering department at plant. — Theodore Cushing, boxes, sold out to E. L. Bonney. *August.* Factories of P. B. Keith and Churchill & Alden shut down for one week. — Bouvé, Crawford, & Co.'s No. 1 shoe shop ran on half time. — Habig & Dolan, boots and shoes, dissolved. — W. W. Cross & Co., tacks, secured Wheeler Mill for use during rebuilding of their burned factory. — A. M. Herrod & Co. occupied new shoe factory. — McCarthy, Sheehy, & Kendrick Co. occupied new factory. *September.* Whitman & Keith, shoes, resumed operations. *October.* Perry & Elkins, shoes, removed to larger quarters. — Thompson Bros.' shoe factory shut down for one week. — Addition built to Monarch Rubber Works. *November.* Thomas White & Co., shoes, removed to Holbrook. — Edwin Keith, boots and shoes, succeeded by E. & L. C. Keith; special capital \$10,000. *December.* Lilley, Brackett, & Co. leased Phinney & Richardson's factory. — Monarch Rubber Co. shut down for repairs on engine. — A. H. Sonneman & Co. established manufacture of boots and shoes. — H. W. Field & Co. established manufacture of shoes. — Reduction of wages made in factories of L. M. Reynolds, Stacy, Adams, & Co., and Geo. E. Keith. — Committee appointed to procure subscriptions for retention in this place of Leonard & Shaw, shoes, obtained required amount. — Shoe shipments for 1893 as compiled by *Brockton Enterprise* were 422,053 cases against 423,241 cases in 1892, a decrease of 6,188 cases, or 1.44 per cent. These figures do not include the output of the factory of Reynolds, Drake, & Gabbell, which is shipped from Easton. Neither do they include the number of single pairs sent out by express or mail or sold at the factories, amounting in all to about 3,500 cases. The following table shows the shipments for the past eleven years:

YEARS.	Cases	YEARS.	Cases	YEARS.	Cases
1883, . . .	290,054	1887, . . .	383,404	1891, . . .	429,582
1884, . . .	326,858	1888, . . .	422,282	1892, . . .	423,241
1885, . . .	333,980	1889, . . .	433,452	1893, . . .	422,053
1886, . . .	361,584	1890, . . .	469,607		

**Brookfield.** In January, work begun on foundation of shoe factory for C. H. Moulton & Co.; building to be 250 x 50 feet, four stories with basement. — Employés of Union Woollen Co.'s mill notified that mill would shut down indefinitely. *March.* East Brookfield Woollen Co. ran nights. — Two new turning machines set up in G. H. Burt & Co.'s shoe factory. *April.* East Brookfield Woollen Co. ran on regular time; at no time after this month was the entire plant in operation. — The old Forbes wheel factory prepared for Standard Molded Counter Co. *May.* Work begun on new storehouse for East Brookfield Woollen Co. — Brick mill recently occupied by Union Woollen Co. leased for term of years by Geo. Mann & Bro. of Leicester; to be known as the Otsego Mill. *June.* Sagendorph Mills shut down. *July.* Charter of incorporation granted to Brookfield Shoe Co.; capital stock \$15,000. *August.* Sagendorph Mills, fancy cassimeres, ran but four days a week. — Bradford Yarn Mill shut down; started up again in November. *September.* Improvements made about stitching room in G. H. Burt & Co.'s shoe factory. — Sagendorph Mills shut down entire months of September and October. *October.* Geo. Mann & Bro., satinetes, resumed operations. — East Brookfield Woollen Co. put in two extractors of increased capacity. *November.* G. H. Burt & Co. began manufacture of calf boots. — Sagendorph Mills started up to run out stock. — Brick works shut down. — C. H. Moulton & Co., shoes, occupied new factory. — Sagendorph Mills shut down for a few days to add new flume. *December.* Sagendorph Mills shut down entire month.

**Brookline.** In March, strike occurred among employés of M. W. Quinlan, carriages. *August.* Strike of 200 laborers of Brookline Gas Co. occurred. *October.* Brookline Gas Co.'s new water gas plant completed; capacity, 3,000,000 cubic feet of gas per day.

**CAMBRIDGE.** In January, Charles River Rubber Co. purchased site for new mill for manufacture of gossamers. — Fires for month: Soap factory of Lysander Kemp & Sons and sausage factory of John J. Rogie. *March.* Goepper Bros., cooperage, incorporated as Goepper Bros. Company; capital stock \$30,000. — Jas. A. Maynard, one of the original founders and incorporators of the Atlantic Works of East Boston, died, aged 74 years. — Strikes for month: Carriage workers employed by Hugh Stewart, Stewart Bros. & Co., Chas. Waugh & Co., and Nelson Carriage Co. *April.* Nine-hour day without reduction of wages granted to employés of Barbour, Stockwell, & Co. — Francis Ivers, of Ivers & Son, carriages, died, aged 72 years. — Strikes for month: Boilermakers employed by Edward Kendall & Sons, William Campbell, Roberts Iron Works, and Cambridge Boiler Works. *May.* Chas. P. Keith, brooms, discontinued manufacturing. — Work begun on new factory for Charles River Rubber Co.; building to be of wood, 60 x 60 and 30 x 150 feet, two stories. — Boston Consolidated Brick Co. formed by Parry Bros. & Co., M. W. Sands, and Bay State Brick Co., for purpose of controlling output of building brick in vicinity. — Fires for month: Candy factory of Geo. Close and at American Rubber Works. — Strike occurred among employés of David Wilcox & Co. *July.* Mason & Hamlin's organ and piano factory shut down for three weeks. — Work begun on factory for Damon Safe Works; to be of wood, 27 x 30 feet, two stories. — Work of excavating begun for storage building for A. H. Hews & Co., pottery; to be of wood, 41 x 106 feet, three stories. — Excavation begun for hat factory for David Wilcox & Co.; to be of wood and brick, 30 x 40 feet, two stories. *August.* Eighty of the 350 men employed by Blake Pump Works returned to work at reduced wages after week's shutdown. — American Rubber Works resumed operations. *September.* Boston Woven Hose & Rubber Co. increased capital \$250,000. *October.* Additions and improvements completed at oil factory of Alden Spear's Sons & Co. — K. J. Quinn, manufacturer of coloring and polishing materials for shoes, removed to Boston. — Fires for month: Coco-Coffee Co., carpenter shop of B. & M. R.R., and carriage factory of Chas. Waugh & Co. *November.* Foundation started for new factory for Jas. H. Roberts & Co. machinery; to be of wood, 75 x 100 feet, three stories.

**Canton.** In January, American Net & Twine Co. made improvements about plant. *April.* American Net & Twine Co. added new machinery. *May.* Additions made to knitting mills of Draper Bros. Co. and new engine set up. *July.* Eureka Silk Mills Nos. 2 and 3 resumed operations. — Rolling mill in Kinsley Iron & Machine Co.'s works shut down for repairs. — G. H. Mansfield & Co., silk braid, shut down for month. *August.* Eureka Silk Co. ran mills only three days a week.

**Charllemont.** In June, C. E. Truesdell completed repairs on factory. *July.* Geo. Adams started up new shingle mill. *August.* H. A. Frary & Son's spool factory shut down for lack of orders; started up again in September.

**Charlton.** In May, Chaffee Bros. of Oxford bought machinery used in Grover's box shop and removed it to Oxford to be used for same purpose. — J. A. Chapman, satinet, built addition, 18 x 36 feet, two stories. *November.* Akers & Taylor's satinet mill ran four days per week.

**Chatham.** In March, Chas. A. Howes, sails, gave up manufacturing; no successor.

**Chelmsford.** In February, Sugden Press Bagging Co. of Lowell purchased site of Eagle Mills. *March.* Work begun on woollen mill for Sugden Press Bagging Co.; to be of wood, 30 x 70 feet, three stories. *August.* Building occupied by Beaver Knitting Co. and Novelty Knitting Machine Co. destroyed by fire; Novelty Knitting Machine Co. removed to Lowell. *September.* Geo. C. Moore's worsted mill resumed operations. — Chelmsford Foundry Co. compelled to shut down part of its works for first time in its history. — Beaver Knitting Co. occupied temporary quarters while rebuilding burned plant. *October.* Worsteds plant of Geo. C. Moore ran on half time.

**CHELSEA.** In January, plans completed for factory of Revere Rubber Co.; to consist of four buildings of red brick, one story each; dimensions of buildings 208 x 60 feet, 201 x 50 feet, 140 x 40 feet, and 139 x 22 feet. — T. Martin & Bro. Manufacturing Co. disposed of shoe goring department to Hub Gore Makers of Brockton. *February.* Contract awarded for erection of box factory for Atwood & McManus; to be 120 x 50 feet, two stories, with boiler and engine



room; lumber shed 220 feet long, and stable 24 x 36 feet. *March.* Revere Rubber Co. completed elevator belt 1,467 feet long, 4 feet wide, weight 10,000 pounds.—Drying room of Boston Rubber Co. damaged by fire. *June.* Foundation begun for new rubber factory for Boston Web & Gore Manufacturing Co.; to be of wood, 80 x 50 feet, two stories; completed in November. *August.* Chas. Henry & Sons, elastic web, and Geo. F. Slade, cigars, shut down. *November.* Boston Web & Gore Manufacturing Co. incorporated to manufacture shoe gorings and suspender webs; capital stock \$20,000.

**Chester.** In January, Wm. S. Gamwell's grist mill destroyed by fire, and rebuilt during summer; occupied in September. *March.* Mill of Grant Corundum Wheel Co. destroyed by fire.

**Chesterfield.** In November, Healy Bros., plane handles, resumed operations.

**CHICOPEE.** In January, Taylor, Bramley, & Co. began putting in new machinery preparatory to enlarging capacity of knit goods factory. *February.* Dwight Manufacturing Co. added 86 spinning frames. *March.* Overman Wheel Co. shut down for a day owing to accident to boiler.—New knitting shops of Doten & Whitehouse, successors to Chicopee Falls Knitting Co., started up. *April.* Belcher & Taylor Agricultural Tool Co. erected new storehouse, 104 x 30 feet.—Lamb Knitting Machine Co. made improvements to plant. *July.* Overman Wheel Co. made repairs at factory.—Taylor, Bramley, & Co., knit goods, added seven knitting machines. *August.* Half the mills of Chicopee Manufacturing Co. shut down on account of low water.—Overman Wheel Co. resumed operations.—Stevens Arms & Tool Co. shut down one week for repairs. *September.* Dwight Manufacturing Co. shut down for two weeks throwing 650 persons out of employment.—Lamb Knitting Machine Co. and Belcher & Taylor Agricultural Tool Co. resumed operations.—Strike of weavers occurred at Dwight Manufacturing Co. *October.* Mills of Chicopee Manufacturing Co. shut down on account of low water.—Chicopee Manufacturing Co. added new wide looms.—Break in engine in factory of Belcher & Taylor Agricultural Tool Co. repaired and operations resumed.—Stockholders of Lamb Knitting Machine Co. voted to sell entire plant to A. G. Spalding & Bros. Spalding's skate factory at Newark, N. J., and gymnasium goods factory at Philadelphia, Pa., to be transferred to Chicopee Falls.—Dwight Manufacturing Co. started up handkerchief looms.—S. Blaisdell, Jr., cotton goods, and Doten & Whitehouse, knit goods, resumed operations.—Reduction in wages made by Overman Wheel Co. *November.* Belcher & Taylor Agricultural Tool Co. put in new engine.—Chicopee Manufacturing Co. resumed operations.—S. Blaisdell, Jr. Co. formed to manufacture cotton and woollen goods; capital stock \$5,000.—Mills 5 and 6 of Dwight Manufacturing Co. shut down. *December.* David M. Butterfield, paper, died, aged 75 years.

**Clinton.** In March, J. A. Needham purchased old electric light power station and started manufacture of absorbent cotton.—Clinton Wire Cloth Co. decided to light plant by electricity. *April.* Smith, Barr, & Co., linen thread, changed name to Worcester Thread Co.—Clinton Wire Cloth Co.'s mill destroyed by fire; to be rebuilt. *May.* First product of Needham Absorbent Cotton Works placed on market.—Eleven story tower of Clinton Wire Cloth Co.'s mill, left standing after the fire, blown up by dynamite.—Picker room of Lancaster Mills damaged by fire. *July.* J. B. Parker Machine Co. ran nine hours a day.—Lancaster Mills added three new spoolers.—Clinton Wire Cloth Co. began to rebuild mill; to be 293 x 80 feet, three stories.—Witherell Shoe Co. resumed operations. *August.* Gibbs Loom Harness & Reed Co.'s works resumed operations in full.—Dyehouse of Bigelow Carpet Mills ran only four days a week.—Weaving and finishing departments at Rodger's Worsted Mills shut down for two weeks.—Lancaster Mills ran on half time.—Witherell Shoe Co. shut down for two weeks.—New building, 14 x 9 feet, erected at Clinton Wire Cloth Co.'s works for storage of dies. *September.* Addition to perforating department of Clinton Wire Cloth Co.'s factory completed.—Lancaster Mills shut down for ten days.—Weaving and Axminster spinning and carding departments of Bigelow Carpet Mills closed indefinitely. *October.* Lancaster Mills resumed operations with reduced wages.—Bigelow Carpet Co.'s mills started up on short time.—Worcester Thread Co. moved all machinery and effects to Worcester.—Electric light plant put in mill of Clinton Wire Cloth Co.—Parker Machine Co. increased working time.—Clinton Wire Cloth Co. ran part of plant nights. *November.* Bigelow Carpet Mills shut down indefinitely.—Rodger's Worsted Mills ran eight hours per day.—Clinton Wire Cloth Co. completed new mill and reduced wages. *December.* Clinton Wall Trunk Co. ran full time.—No. 2 mill of Clinton Worsted Co. started up with reduction in wages.—Bigelow Carpet Co. began erection of new dry house.—No. 3 mill of Bigelow Carpet Co. resumed operations with reduction in wages.

**Cohasset.** In February, C. E. Tisdale started up his shoe factory.

**Colrain.** In September, Massaemet Yarn Mill resumed operations after shutdown of two weeks. *October.* Griswoldville Manufacturing Co. resumed operations after shutdown.

**Concord.** In January, Damon Manufacturing Co. shut down woollen plant indefinitely, throwing 200 hands out of employment; started up to run out stock later in year, and in October shut down permanently.

**Conway.** In January, Brown & Woodward's cotton mill sold to Daniel Eldridge and Chas. Peck; manufacturing continued. *July.* Repairs made and new machinery added to upper mill of Tucker & Cook Manufacturing Co. *October.* Both factories of Tucker & Cook Manufacturing Co. ran five days per week with reduced force of employés. — Eldridge & Peck, cotton goods, dissolved, and mill closed; operations resumed in November by Eldridge Manufacturing Co.

**Cummington.** In January, work resumed at wood-turning establishment at Swift River. *May.* New machinery set up in Chilson & Reed's factory. — Paper mill resumed operations after few weeks' shutdown.

**Dalton.** In May, work begun on foundation for Crane & Co.'s new paper mill; to be of brick, 271 x 209 feet, three stories. Dimensions of the several buildings to be as follows: Rag engine building, 105 x 40 feet; finishing building, 105 x 40 feet; tower, 23 x 25 feet; machine room, 146 x 53 feet; rag building, 82 x 44 feet; steam engine building, 56 x 42 feet; boiler house, 48 x 43 feet. *July.* Kittredge Woollen Mill shut down for a month. — Repairs on engine at Crane & Co.'s paper mill completed and operations resumed. *September.* Byron Weston Co. and Old Berkshire Mills, paper, resumed operations. *October.* New firm, Burr & Soule, organized to manufacture children's shoes. — C. Glennon & Sons, woollens, shut down indefinitely. — Charles Parker's paint shop damaged by fire.

**Dana.** In July, picker room of Crawford & Tyler's woollen mill damaged by fire; work suspended in order to make repairs. *August.* Crawford & Tyler's woollen mill resumed operations. *September.* Saw mill and box shop of G. L. Johnson destroyed by fire. *October.* Crawford & Tyler's woollen mill equipped with automatic fire extinguishers.

**Danvers.** In March, break in water main caused shutdown of all the shoe factories. *April.* Nathaniel Glover & Co., shoes, burned out. *May.* J. V. Hanson of J. V. & J. Hanson, grain milling, died, aged 65 years. *June.* Charter of incorporation granted to Danversport Rubber Co.; capital stock \$10,000. *September.* Danvers Rolling Mill resumed operations with full force of employés.

**Dartmouth.** In March, Eastern Fertilizer Co. purchased plant of Clark's Cove Guano Co.; in May overhauled boilers and made repairs preparatory to starting up.

**Dedham.** In March, United States Linen Co. removed to Medway. — J. V. Abbott Manufacturing Co. built addition, 34 feet long, to loom picker works. *April.* Crook Bros., recently burned out at South Wrentham, resumed business in this town. *July.* Extensive repairs made at Merchants Woollen Mill. *August.* Upper dyehouse of Merchants Woollen Mill started up. *September.* J. V. Abbott Manufacturing Co. shut down indefinitely. — New boiler cranks placed in F. E. Clapp & Co.'s factory. *October.* Merchants Woollen Mill resumed operations on three days a week time schedule and with reduction in wages. *December.* Merchants Woollen Mill started up on full time. — Merchants Woollen Mill damaged by fire.

**Deerfield.** In June, Wiley & Russell Manufacturing Co. shut down one week for vacation and inventory, and in October reduced wages.

**Dennis.** In March, West Dennis Shoe Co.'s factory sold at auction.

**Dighton.** In February, Century Foundry started up. *August.* Co-operative Stove Foundry resumed operations. *September.* New engine set up in Mount Hope Thread Mill.

**Douglas.** In May, Howe Factory, containing axe polishing and finishing departments of American Axe & Tool Co., destroyed by fire. *August.* American Axe & Tool Co. resumed

operations. *October.* Entire forging department of American Axe & Tool Co. destroyed by fire; rebuilt in November. *November.* Douglas Woollen Mills started up after shutdown of several months.

**Dracut.** In January, woollen mill of Michael Collins started up. *February.* Six sets of new cards added to Collins Woollen Mill. *August.* Collins Woollen Mill shut down indefinitely. *September.* Collins Woollen Mill started up with full force after shutdown of four weeks. *November.* Collins Woollen Mill ran on short time. — Weaving and spinning departments of Merrimack Woollen Mills ran nights. *December.* Collins Woollen Mill ran 48 hours per week.

**East Bridgewater.** In April, Carver Cotton Gin Co. worked nights.

**Easthampton.** In April, Glendale Elastic Fabrics Co. added new machinery for manufacture of elastic goring. *June.* New spinning frames set up in No. 1 mill of Easthampton Spinning Co. *July.* Glendale Elastic Fabrics Co., Nashawannuck Suspender Manufacturing Co., and Williston & Knight Co. began running on half time. — Easthampton Rubber Thread Co. increased capital stock to \$300,000. *August.* Colton Elastic Fabric Mills, Williston Mills, and Easthampton Rubber Thread Co.'s mills ran on half time. *September.* Repairs made on broken engine in mill No. 2 of Easthampton Spinning Co. — Improvements made at factory of Easthampton Elastic Web Co. *December.* King Bros.' silk mill started on full time with reduced force.

**Easton.** In March, thread and twine mill of E. J. W. Morse & Co. destroyed by fire; business to be continued in Boston. *May.* Bursting of pulley caused damage in shoe factory of Rice & Hutchins. *October.* John B. King, shoes, went out of business; plant not sold. *December.* W. B. Drew & Co.'s heel factory destroyed by fire.

**Egremont.** In August, Dalzell's Axle Works shut down indefinitely.

**Enfield.** In June, Tebo & Handy erected stone tower at mill for fire purposes. *September.* Swift River Co.'s woollen mill ran but three days a week.

**Essex.** In March, machinery set up in new shoe stitching shop of Bartlett & McKenzie. — Cyrus Burnham, shipbuilder, died. *April.* Story, Perkins, & Co., shoes, dissolved; business continued by Story & Perkins.

**EVERETT.** In March, S. H. Kimball, toys and games, died; business discontinued. *April.* Varnish factory of H. H. Paul destroyed by fire.

**Fairhaven.** In January, several new tack machines placed in American Tack Co.'s branch of Atlas Tack Corporation. *May.* American Tack Co. shut down for stock taking.

**FALL RIVER.** In January, stockholders of Crescent Mills voted to reduce capital stock from \$500,000 to \$300,000, and then raise it again to \$400,000. — Stockholders of Granite Mills voted to increase capital stock from \$800,000 to \$1,000,000 and to increase number of shares. — New machinery put in Mechanics' Mills. — Directors of Hargraves Mills appropriated \$50,000 for building addition to mill No. 2 to contain 500 looms for weaving satens. — Fall River Manufactory made improvements and additions. — Product of new Stevens Mill to be crocheted Marseilles quilts and bed coverings. — Stafford Mills resumed operations. — A. G. Thurston & Co. moved machine shop to old Davis Thread Mill. — Laurel Lake Mills started up in full. — Following shutdowns noted during month: Weetamoe Mills and American Linen Co. on account of accidents to engine and American Print Works to take account of stock. — Waste mill of Maurice T. Barlow damaged by fire. *February.* Benson & Austin discontinued business; plant, which was owned by Fall River Supply Co., sold to Davis & McLane, reeds and harnesses. — New mill of Sanford Spinning Co., work upon which began in May, 1892, put in operation. — New machinery set up in Seaconnet Mills. — New watchman's clock placed in Sanford Spinning Co.'s mill. — Crescent Mills became part of Merchants' Manufacturing Co.'s property. — Stockholders of Pocasset Manufacturing Co. voted to reduce capital stock to \$600,000. — New machinery added to King Philip Mills. — Picker room of Durfee Mill No. 2 damaged by fire. *March.* Directors of Weetamoe Mills decided to build brick addition, 100 x 100 feet, two stories, to contain 300 looms. — Improvements about American Print Works completed and operations resumed. — Improvements made in picker department of Wampanoag Mill No. 2. — New water wheel set up at Pocasset Mills. — Ground



broken for new Iron Works Mill; to be of brick, 142 x 306 feet, four stories. — Weavers of Border City Mill No. 2 received advance in wages. — Blowing out of cylinder head in engine at No. 1 Border City Mill caused brief shutdown. — New English machinery set up in Hargraves Mills. — Strike occurred among weavers in Hargraves Mills. — Fires for month: Picker room of Merchants' Mills and opening room of Laurel Lake Mills. *April.* Granite Mill No. 1 started up new 1,200 horse power engine. — Strikes for month: Marshall's Hat Works (framers) and Hargraves Mills (spinners). — Shed used by Chace Mills as cotton house destroyed by fire. *May.* Stockholders of Sanford Spinning Co. voted to increase capital stock by \$100,000. — Carding and spinning machinery at new Stevens Mill put in operation. — Kilburn, Lincoln, & Co. began erection of new machine shop. — Ground floor of Weetamoe Mills, formerly used as storehouse, changed into weave room. — Mechanics' Mills shut down on account of bursting of cylinder head. — Following mills added new machinery: Troy, Crescent, Stafford, and Seaconnet. — Picker room of Kerr Thread Mill damaged by fire. *June.* New machinery added to following mills: King Philip, Wampanoag, Merchants, Globe, Granite, Border City, and American Linen. — Improvements made about factory of Kerr Thread Co. — Accident to engine in Union Cotton Manufacturing Co.'s mill No. 1 caused shutdown of portion of plant. — Strikes for month: Richard Borden Manufacturing Co. (weavers) and Sanford Spinning Co. (back boys). — Cotton shed of Stevens Manufacturing Co. destroyed by fire. *July.* Troy Mills resumed operations in full. — Durfee Mills Co. began erection of new weave shed. — Barnard Manufacturing Co. and Sagamore Manufacturing Co. added new looms. — Wyoming Mills sold at auction to John W. Hargraves. — New machinery set up in Barnaby Mills. — Following shutdowns noted during month: Barnaby Mills, one week; Weetamoe Mills, four weeks; American Print Works, two weeks. — Eagle Stove Foundry reduced persons employed from 14 to 3. — Fires during month: Lumber yard of Cook, Borden, & Co.; picker room of Iron Works Mill No. 2; building occupied by Sumner's cigar factory and Wilkinson's candy factory. *August.* Fall River Bleachery resumed operations after shutdown of three days for repairs. — Repairs made in spinning department of Sagamore Mill No. 2. — Break in engine at Border City Mill No. 3 caused brief shutdown. — At meeting of treasurers of various mills it was voted to reduce wages from 10 to 15 per cent. — New Granite Mill No. 3 completed. — Break in machinery at Fall River Spool & Bobbin Works necessitated shutdown of three days. — Fall River Machine Co. ran three days per week. — Fall River Brewing Co. purchased old Hurst brewery to improve property. — Merchants' Manufacturing Co. shut down for the entire month; other shutdowns during month: American Linen Mills; Annawan Manufacturing Co.; Fall River Manufactory; Flint, Granite, King Philip, Laurel Lake, Metacomet, Robeson, Seaconnet, Shove, Stafford, Wampanoag, Mechanics, Cornell, and Conanicut Mills; Richard Borden Manufacturing Co.; Sanford Spinning Co.; Globe Yarn Mill No. 3; Eddy Manufacturing Co.; and Barnard Manufacturing Co. — Following mills resumed operations: Barnaby, Border City, Chace, Davol, Durfee, Globe No. 2, Hargraves, Narragansett, Osborn, Pocasset, Slade, Sagamore, Tecumseh, and Union. *September.* Kerr Thread Mills started on three days a week for an indefinite time. — Nathaniel Lewis, waste manufacturer, died. — Plant of Fall River Boot & Shoe Manufacturing Co. purchased by Quinn Bros. & Co. — With exception of Metacomet Mills, Fall River Manufactory, and American Linen Mills, all the factories resumed operations, many of them with reduced wages. — New machinery placed in Mechanics, Weetamoe, Union, Seaconnet, and King Philip Mills. — Fall River Iron Works Co. shut down. — Strikes for month: Merchants' Manufacturing Co. (speeder tenders) and Narragansett Mills (spinners). *October.* Operatives in King Philip Mills given their house rent free during time mills were idle. — Machinery set up in addition to Massasoit Manufacturing Co.'s mill. — Broken shaft in Crescent Mills caused shutdown for repairs. — Shove Mills shut down for two weeks to put in new engines and make improvements. — Break in engine at Union Mill No. 1 caused brief shutdown for repairs. — Stafford Mills, Sagamore Mills, Globe Yarn Mills, Conanicut Mills, and Sanford Spinning Co. resumed operations. — Shutdowns for month: Metacomet, Annawan, Fall River Manufactory, and Kerr Thread Co. — Bursting of steam pipe in Stafford Mill No. 1 caused shutdown. — Thomas Hacking, clothes lines, went out of business; no successor. — Strike occurred among ring spinners in Sagamore Mills. *November.* New machinery added to King Philip, Mechanics, Globe, Shove, Granite, and Laurel Lake Mills. — Kerr Thread Co. and Iron Works Mill Nos. 3 and 4 resumed operations. — Weetamoe Mills shut down for repairs. — Annawan Mills resumed operations after brief shutdown for repairs. — Repairs made to American Linen Co.'s mill wheel. — Fall River Spool & Bobbin Works shut down. — Break in machinery at Laurel Lake Mills caused brief shutdown for repairs. — Stockholders of Crescent Mills voted to wind up affairs and dissolve corporation. — Strike of weavers occurred in Chace Mills. — Eagle Stove Foundry reduced persons employed from 15 to 3 in November and December. *December.* Belmont Manufacturing Co., Barnaby Mills, and Globe Yarn Mills reduced force. — Chace Mill and Belmont Manufacturing Co. resumed operations in full. — New Granite

Mill began operations. — King Philip Mills shut down for Christmas week. — Part of machinery set up in new Granite Mill No. 3; mill to contain 22,080 spindles; 1,056 looms; 36 jacks of 200 spindles each; 12 roving frames of 172 spindles each; 6 intermediates of 132 spindles each; 10 lappers; 42 cards; 81 ring frames of 240 spindles each; and 8 spoolers. — Wyoming Thread Mill Co. organized; capital stock \$54,000. — New machinery added to Iron Works, Union, and Durfee Mills. — The annual cloth statement issued by Remington & Davol for 1893 showed a production of 9,065,000 pieces, a decrease, as compared with 1892, of 980,000 pieces, or 9.76 per cent. Sales for the year were 7,119,000 pieces, of which 4,245,000 pieces were "odds" and 2,874,000 pieces were 64 x 64s. This showed a decrease, as compared with 1892, of 3,640,000 pieces, or 33.83 per cent. There were 950,000 pieces sold for future delivery as against 2,850,000 in 1892, a decrease of 1,900,000 pieces, or 66.67 per cent. The average price paid during the year was .032950 cents, the highest 4 cents and the lowest 2¼ cents. The following table shows production and sales since 1888:

CLASSIFICATION.	NUMBER OF PIECES					
	1888	1889	1890	1891	1892	1893
Total production, . . .	8,865,000	8,640,000	9,937,000	9,985,000	10,045,000	9,065,000
Sales:						
Odd, . . . . .	3,580,000	4,151,000	3,876,000	4,423,000	5,547,000	4,245,000
60 x 56, . . . . .	200,000	147,000	184,000	125,000	173,000	-
64 x 64, . . . . .	4,918,000	3,950,000	4,524,000	4,290,000	5,039,000	2,874,000
Other sales, . . . . .	444,000	-	-	-	-	-
On hand at close of year, .	5,000	35,000	583,000	90,000	7,000	142,000
Sold for future delivery, .	1,780,000	1,348,000	1,540,000	1,375,000	2,850,000	950,000

**FITCHBURG.** In January, large storehouse added to Orswell Mills. — Company formed to build and operate print cloth establishment; capital stock \$250,000. Stockholders organized and the name "Nockage Mills" adopted. *February.* Hydraulic elevator placed in plant of Simonds Manufacturing Co. *March.* Beoli Mills added six new spinning frames. *April.* Fitchburg Manufacturing Co., recently purchased by C. T. & Adams Crocker, resumed operations. — C. A. Edgarton Manufacturing Co., of Shirley, decided to move to this city. — B. E. & G. S. Smiley of Worcester leased two buildings for manufacture of mattresses. *May.* Work begun on foundation of building for C. A. Edgarton Manufacturing Co., webs and suspenders, to be 225 x 46 feet, three stories high. — Strike occurred among E. M. Dickinson & Co.'s lasters. *June.* Simonds Rolling Machine Co. ran mill 22 hours per day to fill orders. — Manufacture of mattresses started by Smiley Bros. under firm name of South Fitchburg Manufacturing Co. — Addition, 40 x 100 feet, made to Falulah Paper Co.'s main mill. — Work begun on foundation of Nockage Mills; to be of brick, 75 x 322 feet, three stories. *July.* National Cycle Co. organized under State of Maine laws; capital stock \$500,000. — New machinery placed in Grant Yarn Mill. — Beoli Mills, run by Jas. Phillips, Jr., incorporated as Beoli Co., to manufacture woollen and other fabrics; capital stock \$300,000. — Putnam Machine Co.'s works closed indefinitely. — Beoli Co., Star Worsted Co., Fitchburg Worsted Co., and Fitchburg Manufacturing Co., ran four days a week. *August.* Fitchburg Duck Mills shut down for two weeks to make repairs. — Repairs made about Snow Mill. — Orswell Mills resumed operations. — Parkhill Manufacturing Co. ran mills three days a week. — Instant Freezer Co. established to manufacture freezing machinery; capital stock \$5,000. — Strike occurred among moulders in Putnam Machine Co. *September.* Directors of Star Worsted Co. decided to go out of business. — J. H. Foss Co. incorporated; capital stock \$10,000. — American Pruning Co. dissolved. — Parkhill Manufacturing Co. shut down for two weeks. — Beoli Mills, Fitchburg Duck Mills, and Grant Yarn Mill resumed operations. *October.* Fitchburg Worsted Co., Baltic Mills Co., and Parkhill Manufacturing Co. started up with reduction in wages. — B. M. Pitts' cotton mills resumed operations after shutdown of five weeks. — Putnam Machine Co. started up. — New idea in steam pumps carried out at machine shop of H. C. Deane; the valve of the pump is automatic, and operates by direct steam without the aid of a valve rod or tappet. Citizens of Warren formed company for its manufacture. —

Wanoosnoc Power Co. organized for purpose of generating electricity at a power house and transmitting it to manufactories in the city. — W. A. Garno removed old mill, to be replaced by new building, 80 x 50 feet, three stories; to be used as saw and planing mill, also as box factory. *November.* Crocker, Burbank, & Co., paper, reduced wages. — Baltic Mills Co. increased force. — Grant Anti-Friction Ball Co. sold business to Cleveland Machine Screw Co.; business to be removed to Cleveland, Ohio. — Fitchburg Duck Mills ran on short time. — Jerome Mossman, wood novelties, and Beoli Mills started up on full time. — Patent device for manufacture of tape from leather-board, to be used in covering electric wires, started at leather-board mill. — Parkhill Manufacturing Co. started up in full. *December.* Foundation started for W. A. Garno's box factory and saw mill; to be of wood, 80 x 50 feet, three stories. — Mitchell Manufacturing Co., cottons, resumed operations. — Chas. T. Crocker purchased machinery of Star Worsted Mill; manufacture of worsted yarn continued. — Geo. Whitney Woollen Co. removed to Enfield, N. H.

**Foxborough.** In July, Virgil S. Pond, boxes, merged business into V. S. Pond Co. *November.* The E. B. Rogers boot and shoe factory, idle for two years, leased by a straw goods firm. — W. J. Lewis, machinery, resumed operations.

**Framingham.** In January, Singapore Rattan Works shut down in part for short time. — New sewers taken on at T. L. Barbor & Co.'s straw factory. — Framingham Box Co. connected by telephone with all shoe factories in town. *February.* Addition to Gregory & Shaw's shoe factory completed. *March.* Staples & Smalley, straw goods, worked nights. *April.* New machinery set up by Enterprise Manufacturing Co. *May.* Chas. Moulton's cider mill and carpenter shop destroyed by fire. *June.* Pope Manufacturing Co. of Boston secured buildings of Pará Rubber Works. *July.* Gregory, Shaw, & Co., shoes, reduced working force. — Elliott Hickory Cycle Co. of Newton, merged into Pope Manufacturing Co., to occupy renovated buildings of Pará Rubber Works. *August.* Reed chair factory of A. H. Ordway & Co. shut down for month. — Framingham Brass Co. leased additional quarters. *September.* Saxonville Woollen Mills closed for one week. *October.* H. M. Richardson, of Leominster, leased factory for five years for manufacture of baby carriages, etc. — New machinery added to Saxonville Mills for manufacture of blankets. — A. H. Ordway & Co., rattan chairs, reduced wages. — Gilchrist & Taylor increased force in foundry and machine shop. — Elliott Hickory Cycle Co. began manufacture of hickory bicycles in old Pará plant; fifty men employed. *November.* E. F. Delaney, shoe knives, moved plant to Boston. — Saxonville Woollen Mills shut down indefinitely. — Clark & Conant's portable saw mill destroyed by fire.

**Franklin.** In January, Geo. Singleton of Woonsocket, R. I., leased mill formerly occupied by Saxon Worsted Co., to manufacture woollen goods. — J. W. Clark & Sons ran machine shop night and day to keep up with orders. *February.* Ray Woollen Co. ran nights. *April.* Singleton Worsted Co. started up plant. — Franklin Rubber Works shut down for two weeks for stock taking. — Waite Felting Co. began erection of new storehouse 30 x 60 feet. *July.* Franklin Knitting Co. put in spinning plant and two knitting machines. — Through efforts of Milford Business Men's Association, Franklin Iron Foundry Co. induced to remove to Milford. *August.* Erikson & Stewart reopened straw goods factory. — Waite Felt Mill closed for short time. — Waterman Clothing Co. organized to manufacture clothing; capital stock \$10,000. — Franklin Rubber Works shut down for two weeks' vacation. — Norfolk Woollen Co. decreased number of persons employed from 31 in July to 6 in August, running with small force balance of year. — Storehouse of Franklin Knitting Mill destroyed by fire. *September.* Ray Woollen Co. resumed operations. — J. B. Hopkins & Co.'s canning factory started on fall work. — Lowell B. Cleveland, bonnet and hat blocks, died, aged 78 years. — Norfolk Woollen Co. started up after shutdown of several weeks. — Franklin Knitting Co. shut down for three months; worked on short time in December. — Henry T. Hayward shut down between September 1 and November 30.

**Freetown.** In January, boiler explosion occurred in Durfee's wood acid mill.

**Gardner.** In January, erection of new foundry for Warfield & Gilson begun. *February.* L. Sawin & Son started up their new woodworking establishment. — Art Publishing Co.'s building destroyed by fire. *April.* Central Oilgas Stove Co. ran part of plant evenings to keep orders filled. — Nichols Bros., formerly of Westminster, erected three-story wooden building for manufacture of cane and wood seat chairs. — Warfield & Gilson completed iron foundry; building 50 x 80 feet with extension 40 x 10 feet. *May.* Heywood Fire Co. organized for protection of Heywood Chair Factory. — Worcester Reed Chair Co. organized; capital



stock \$15,000. — A. Priest & Son bought A. F. Adams' piano shop and will use it as a manufactory for house builders' finish. *July*. New elevator placed in Heywood Chair Factory. — Work begun preparatory to erecting new brick dryhouse at Heywood Chair Factory. — F. O. Gilson retired from firm of Warfield & Gilson, iron foundries; to be succeeded by C. H. Kenson. *August*. Electric Street Railway Co. organized; capital stock \$75,000. *September*. Chair shops of Heywood Bros. & Co. shut down for one week. — Shops of P. Derby & Co. and S. Bent & Bros. ran but five days per week. *November*. Excavating begun for addition to Heywood Bros. & Co.'s chair factory; to be of brick, three stories.

**Georgetown.** In May, L. C. Chase & Co., of Boston, took possession of Parker River Woollen Mill for manufacture of horse blankets and other coarse goods; mill started up with thirty men. *July*. F. H. Foss, a Haverhill shoe manufacturer, leased factory and removed to this town. *August*. Box factory resumed operations. *September*. W. M. Brewster started up shoe factory. *October*. Shoe factory of F. H. Foss lighted by electricity. *November*. Parker River Woollen Mills resumed operations. — Palmer & Tenney began manufacture of children's fine shoes.

**Gill.** Turner's Falls Lumber Co. shut down one week for repairs.

**GLOUCESTER.** In January, Daniel H. Wallace discontinued business; no successor. *March*. Tarr & Wanson formed to manufacture paints, etc.; capital stock \$120,000. *May*. Cape Ann Granite Co.'s plant sold at auction to Rockport Granite Co. *June*. Union Glue Co. incorporated to manufacture glue, mucilage, and other adhesive substances; capital stock \$6,000. — Davis Bros. started manufacture of patented bits and hardware specialties. *August*. Cape Ann Drop Forge Works started up with 22 men. *October*. Firm of A. P. Stoddart & Son changed to A. P. Stoddart & Co., iron work and pattern making. *December*. G. W. Prouty Co. incorporated; capital stock \$25,000. — A. Marchant & Son, soaps, dissolved; continued by C. S. Marchant.

**Grafton.** In January, currying shop of L. W. Dodge & Son shut down. *February*. Esek Saunders, cotton, died, aged 93 years. *March*. Business at shoe factory of Gibbs & Allen suspended owing to illness of Mr. Allen. *April*. Herbert F. Allen of Gibbs & Allen, shoes, died, aged 52 years. *July*. Washington Mills Emery Manufacturing Co. began erection of new storehouse. — Finlayson, Bousfield, & Co., linen thread, decided to erect new mill; to be of brick, 150 feet long, two stories. *August*. Saunders Cotton Mill shut down for two weeks. *September*. Fisher Manufacturing Co. ran but 30 hours a week and reduced wages of operatives. — Flax mills of Finlayson, Bousfield, & Co. shut down temporarily and work begun on addition to bleachery building. — Saunders Cotton Mill started up on full time. — Waste house of Fisher Manufacturing Co. destroyed by fire. *October*. Fisher Manufacturing Co. started up on full time. *November*. S. A. Forbush, shoes, resumed operations. *December*. Washington Emery Mills shut down from September to December, inclusive.

**Great Barrington.** In January, stock, machinery, and buildings of Owen Paper Co. deeded to Andrew Mills of New York. *February*. New boiler put in Hackett's machine shop. *May*. Riverdale Cotton Co. incorporated to manufacture cotton goods; capital stock \$100,000. *June*. Twenty-five carding machines set up in Monument Mills. — Work begun on Riverdale Cotton Co.'s mill; to consist of two two-story structures, 50 x 200 feet, with boiler and engine house 49 x 60 feet. — Foundation of new weave shed begun for Monument Mills; to be of wood, 50 x 100 feet, two stories; fancy bed quilts to be manufactured. *July*. Everett Woollen Mills shut down for one month. *August*. Mill of Owen Paper Co. closed. — Grist mill property known as Seekonk Mill sold to Charles Vincent. *September*. Monument Mills resumed operations and Everett Woollen Mills started up in part.

**Greenfield.** In January, foundation laid for iron foundry to be occupied by Hinsdale (N. H.) Foundry Co.; to be of brick, 72 x 44 feet, one story, with asbestos roof. — Geo. C. Hall, shoes, succeeded by Geo. C. Hall Shoe Co. — Dudley's box shop damaged by fire. *March*. A. H. Wright & Son succeeded firm of Wright, Lyons, & Co. which was dissolved owing to death of Geo. E. Lyons. — Roof of T. N. Austin & Co.'s planing mill slightly damaged by fire. *May*. Accident to heeling machine in Geo. C. Hall Shoe Co.'s factory caused setback of some days. *July*. General reduction of wages made at shoe factory of Cutler, Lyons, & Field. — Goodell Bros. started up their factory. — B. B. Noyes & Co. started up factory, repairs on boiler being completed. — Geo. C. Hall Shoe Co. resumed operations after week's vacation for inventory. — Silver shops of A. F. Towle & Son Co. closed for repairs.

—T. N. Austin sold interest in lumber business to partner, W. B. Gaines, who organized local stock company under name of Franklin Lumber Co.; capital stock \$20,000. *August*. Offinger & Sauter, new firm, leased old pattern shop of Wiley & Russell Manufacturing Co. for one year, and began manufacture of patent harmonicas. —Chas. R. Field, baby carriages and wheels, resumed operations. *September*. Franklin Lumber Co. bought out window, door, and blind business of A. G. Miner. —W. H. Kilbourn's new manufactory completed. *October*. R. H. Eddy purchased certain rights of Vermont Manufacturing Co. —B. B. Noyes & Co. started shoes on eight hours a day. *November*. Geo. C. Hall Shoe Co. changed to Franklin Shoe Co.

**Groton.** In February, high water caused shutdown of A. H. Thompson's mill for a few days. *September*. Groton Mill closed. —Tileston & Hollingsworth Co., paper, resumed operations. *October*. Squanacook Mill closed. —The paper mills started up on full time after shutdown of two weeks.

**Groveland.** In September, Groveland Woollen Mills shut down for two weeks.

**Hanover.** In February, E. Phillips & Sons ran night and day to keep up with orders. *November*. Goodrich, Cloutman, & Dunham, shoes, dissolved; succeeded by Goodrich & Young.

**Hanson.** In August, work begun on addition to Foster Mill.

**Hardwick.** In August, Geo. H. Gilbert Manufacturing Co., woollens, started on four days a week schedule; resumed operations on full time in October.

**HAVERHILL.** In January, plant of Rosemont Carriage Co. sold to D. S. Kimball of Manchester, N. H.; business removed to that place. —Jos. H. Carr & Co., shoes, dissolved; business continued by Alex. F. Cusson. —New machinery placed in Hayes' box mill. —Morrill & Co.'s shoe factory damaged by boiler explosion. —H. H. & F. S. Gage, shoes, increased facilities. —Foss & Hazeltine began manufacture of shoe heels. —A. J. Tilton who conducted a shoe factory at Ipswich House of Correction, removed business to this city. —Ellis & Connor, shoes, dissolved; business continued by J. H. Connor, who moved into new factory. —Fires for month: John Owen, wood and paper boxes; L. A. Finney, shoes; Byron Noyes, shoes; and O. S. Currier, paper boxes. *February*. Eben G. Tilton, shoes, died. —Harry W. Cloggston established to manufacture slippers; special capital \$25,000. —Accident to boiler at C. W. Hayes' box factory caused shutdown by 40 manufacturers who depended on it for power; 2,000 people thrown out of work temporarily. —Victor H. Beane, slippers, removed to new quarters. —J. H. May, formerly of Boston, opened a slipper factory. —M. C. Cram, shoes, purchased A. B. Brown & Co.'s stock and trade. —Strike occurred among cutters in H. B. Goodrich & Co.'s factory. —Building occupied by White & Sanborn damaged by fire. *March*. G. H. Hoyt, paper boxes, admitted son to partnership under firm name of G. H. Hoyt & Son. —Morse Bros. & Co., shoes, started up Bon Ton stitching room adjoining factory. —Strikes for month: Byron Noyes & Co., (machine operators) and Wallace, Elliott, & Co. (lasters and beaters out). —Block occupied by L. A. Finney, Byron Noyes & Co., E. P. Dodge & Co., shoes, and O. S. Currier, paper boxes, damaged by fire. *April*. E. N. Simpson, tongues, stays, lacings, etc., moved to West Newbury. —Firm of Sanborn & Davis dissolved; business continued by Wm. Davis. —Hale & Valentine, shoes, dissolved. —Daniel Hooke, shoes, died, aged 64 years. *May*. Shoe factory of J. H. Durgin undermined by freshet. —Lambert, Berry, & Co. began manufacture of leather shanks for shoes. —S. P. Gardner, shoes, shut down permanently. —Arthur Prescott, shoes, shut down for balance of year. *June*. Break in engine at Chick Bros.' factory repaired and operations resumed. —Day & Merrill, shoes, dissolved; business continued by Edw. B. Merrill. —Parkhurst & Brooks, gymnasium shoes, removed to new quarters. —A. E. Fernald, shoe tips, bought out H. M. Vine, shoes and slippers. —Engine at Jaques' power station, which furnished power for 125 manufacturers, broke down; 2,000 people temporarily thrown out of employment. —Strike occurred among employes of Geo. W. Gilbert, cut soles, etc. —Fires for month: E. A. Messenger, house finish; drying room of L. C. Wadleigh & Son's last factory, and W. Edelstein & Co.'s shoe factory. *July*. Griffin & George, shoes, dissolved; business continued by H. B. George. —Alex. F. Cusson, shoes, sold out to W. W. Ham & Co. —Byron Noyes & Co., shoes, dissolved; Edw. W. Noyes retired and Byron Noyes continued under same style. —Geo. A. Green of Green & Nichols, sole cutters, died, aged 62 years. —W. B. Thom & Co., hats, closed mills for week. —Part of the lasting machines in factory of T. S. Ruddock & Son started up. —Griffin Bros. & Co. and Sumner Bros., shoes, resumed opera-

tions after shutdown. — Soda and mineral water manufacturing establishment of O. A. Smith damaged by fire. *August.* Shoe factory of W. S. Chase & Sons started up on four days a week. — G. H. Hoyt & Son's box factory shut down. — Miller & Foster, shoes, started up after two weeks' shutdown. — Chick Bros., shoes, made improvements. — Appleton & Bassett, shoes, dissolved; succeeded by S. C. Bassett & Co. — W. B. Thom & Co., hats, resumed operations on half time. — Weeks, Cummings, & Co., marble and granite, succeeded by Frank G. Cummings. — Stevens Woollen Mills shut down indefinitely. — John W. Russ reduced wages of employés. — Frank Kiezer, slippers, purchased factory formerly operated by Walter Hale. — A. J. Tewksbury, shoes, sold out to L. M. Hall. — Strike occurred among machine lasters in factory of Searl & Webster. — J. A. Lynch's shoe factory damaged by fire. — Henry Christenson, heels, etc., discontinued business; no successor. *September.* W. B. Thom & Co., hats, started up on full time. — Byron Noyes, shoes, removed to new factory. — New roof built and other improvements made at dyehouse of Stevens Woollen Mill. — Stevens Woollen Mill, C. E. Greenman, and Ellis & Nason resumed operations. *October.* Manufacture of brush and burnish stains for boots and shoes established. — Holt & Mayberry, heels, dissolved. — Eugene Connor, formerly of Feeley & Connor, began manufacture of custom shoes. *November.* Chick Bros., shoes, started up in part after shutdown of several weeks. — O. S. Currier made improvements and increased capacity of box factory. — C. P. Emery & Co. began manufacture of shoes. — Wm. Bray added new engine and dynamo to shoe factory. — M. C. Cram added three new lasting machines to shoe factory. — W. C. Lewis Co., shoes, incorporated; capital stock \$20,000. *December.* G. H. Leighton began manufacture of slippers. — John Pilling's shoe factory damaged by bursting of water pipe. — M. T. Stevens & Sons, woollens, reduced working time.

**Hingham.** In January, Shawmut Manufacturing Co., leatherette, added new machinery.

**Hinsdale.** In July, Hinsdale Bros., woollens, shut down two of their three mills; third mill to run five days per week. *August.* Repairs and improvements made at Halle & Frost's mills and Brightwood Paper Mills. *November.* Hinsdale Mills shut down temporarily on account of accident to cylinder.

**Holbrook.** In February, establishment of A. F. McCabe, tinsmith, damaged by fire. *April.* Edmund White, shoes, notified employés that he would shut down factory by May 1 and retire from business. *August.* Whitcomb & Paine started up their shoe factory.

**Holden.** In April, M. V. B. Jefferson, proprietor of Jefferson Mills, purchased property known as Holden Mills. — William H. Coe started up woollen mill formerly operated by A. H. Turner & Co. *May.* Jefferson Manufacturing Co. put set of cards in mill bought of Holden Co. to manufacture satinet. *December.* Woollen mill of Wm. H. Coe shut down during November and December.

**Holliston.** In January, C. F. Driscoll purchased Draper boot factory. *March.* Eaton, Stetson, & Co., shoes, removed from Whitman to this town. *August.* Holliston Woollen Mills shut down for thirty days. *October.* Work begun on new harness factory for John Hughes and M. F. Coughlin; building to be 130 x 45 feet, two stories. — Personal property and stock of Holliston Woollen Mills sold to Fred Barbour of Boston. *November.* Holliston Woollen Mills started up to run out stock on hand. *December.* Bent Bros. & Co., of Wayland, and Holliston Shoe Co. applied for permission to consolidate.

**HOLYOKE.** In January, Holyoke Braid Co. completed arrangements for starting braid mill. — B. F. Perkins & Son bought of K. & J. Shannon half interest in paper mill at South Hadley Falls. — Erection of paper mill for Riverside Paper Co. begun; to be of brick, 565 x 65 feet, four stories. — Picker room of Connor Bros.' woollen mill slightly damaged by fire. — Holyoke Hydrant & Iron Works increased capital stock \$20,000. *February.* John E. Brown Manufacturing Co. organized to manufacture shoddy; capital stock \$15,000. — New England Carriage Wheel Factory sold at auction. — Kennedy & Sullivan Manufacturing Co. formed to engage in lighting, heating, and water machinery business; capital stock \$25,000. — Hadley Thread Co. put in 1,000 horse power boiler and 800 horse power engine. — Preston Manufacturing Co. established to manufacture shirts, collars, underwear, etc.; capital stock \$5,000. — Engines set up at new Linden Paper Mill. — Goetz Silk Manufacturing Co. incorporated; capital stock \$30,000. — Capital stock of Brown Manufacturing Co., bed quilts, increased to \$15,000. *April.* Holyoke Envelope Co. added new 75 horse power engine. — Work begun at Linden Paper Mill. — Valley Paper Co. put in new perfecting engines and four new filters. — Crocker Manufacturing Co. set up new 200 horse power boiler. — Albion Paper Co. put in new 1,000 pound beating engine. — E. F. White sold his box manufacturing



business. — Contract awarded for addition to Wm. Skinner & Sons' silk mills; to be 102 x 40 feet, five stories. — Riverside Paper Co. began erection of three story brick building, 332 x 180 feet, to be known as Riverside No. 2 Mill. — Merrick Thread Co. began erection of new brick mill, 161 x 100 feet, three stories. — New 250 horse power engine placed in Norman Paper Mill to run heating and washing machinery. — Beebe & Holbrook Paper Co. began erection of new building. — Union Paper Mill damaged by fire. *May.* Following mills obliged to shut down wholly or in part by high water: Chemical Paper Co., Excelsior Paper Co., Newton Paper Co., Hampden Glazed Paper & Card Co., Hadley Thread Co., Norman Paper Co., Riverside Paper Co., G. E. Gill Co., Nonotuck Paper Co., Albion Paper Co., Crocker Manufacturing Co. — New water wheels placed in Lyman Mills. — Chemical Paper Mill damaged by fire. *June.* New 200 horse power engine set up in Nonotuck Paper Mill. — Chemical Paper Co. began erection of wooden storehouse 200 feet long. — Mills depending wholly upon water power inconvenienced by caving in of sewer main. — Work begun on foundation of addition to Hampden Glazed Paper & Card Co.'s mill. — Connecticut River Paper Co.'s building damaged by fire. *July.* Following shutdowns noted during month: Springfield Blanket Co., Connecticut River Paper Co., Taylor Manufacturing Co., Germania Woollen Mills (in part), Farr Alpaca Mill No. 1 (for repairs on broken penstock), and Linden Paper Co., Parsons Paper Mill, and Prentiss Wire Mill on account of low water. — Keating Wheel Co. discharged all but a few employes. — New floor laid in engine room at Beebe & Holbrook's paper mill. — Deane Steam Pump Works started up after two weeks' shutdown. *August.* Germania Mills reduced working time to five days per week, eight hours per day. — Wauregan Paper Co. resumed operations after brief shutdown for repairs. — Repairs made on engine at Whiting Paper Mill No. 1. — Riverside Paper Mill resumed operations after two weeks' shutdown. — Following shutdowns noted during month: Parsons Paper Mill No. 1, Hadley Thread Co., Chemical Paper Mill, Holyoke Envelope Co. — Henry Seymour Cutlery Co.'s building damaged by fire. *September.* Following mills resumed operations: Hadley Thread, Lyman, Riverside, Linden, Holyoke, and Connecticut River Paper; Hadley Thread Co. and Lyman Mills with reduction in wages. *October.* Farr Alpaca Co. started up on short time and with reduction in wages, after shutdown of two weeks. — About \$20,000 worth of new machinery placed in No. 2 Whiting Mill. *November.* Germania Mills shut down for repairs and improvements. — Riverside Paper Co. added refining engine. — Springfield Blanket Co. started up on gray and white goods. — Deane Steam Pump Co. increased capital stock \$100,000. — Norman Paper Co. increased capital stock \$100,000. *December.* Merrick Thread Mills shut down temporarily. — Hadley Thread Co. made improvements and repairs and added new machinery. — From August to December, inclusive, about two-thirds of employes of G. R. Dickinson Paper Co. were employed on full time. — Holyoke Water Power Co. increased capital stock \$600,000.

**Hopedale.** In March, two new goring looms put in at Hopedale Elastic Fabric Mill. *May.* New engine put in by Dutcher Temple Co. to furnish power for dynamo. — Hopedale Electric Co. added planing mill to machine shop plant. *June.* Foundation of addition for Hopedale Electric Co. started; to be of wood, 100 x 120 feet, one story. *July.* Hopedale Elastic Fabric Co. added four looms. — Hopedale Machine Screw Co. increased capital stock \$50,000. *November.* Hopedale Elastic Fabric Co. ran on short time.

**Hopkinton.** In January, five new lasting machines placed in shoe factory of Crooks, Root, & Co. *February.* Samuel Crooks of Crooks, Root, & Co., shoes, died; business continued by remaining partners.

**Hubbardston.** In April, Eagle Woollen Mills destroyed by fire; to be rebuilt. *August.* W. H. Bowdlear purchased mill property at Williamsville to manufacture beeswax.

**Hudson.** In January, Augustus P. Martin & Co., shoes, removed to Boston. *February.* Apsley Rubber Co. started up new electric light plant in its works. — Work begun in stitching room of C. M. Brett's shoe factory. *March.* Box shop of N. G. Tripp destroyed by fire. *April.* Room for storing shavings added to Sawyer's box factory. — Harry Seaver withdrew from firm of H. H. Mawhinney & Co., shoes. *July.* P. E. Millay & Son, lasts, formed stock company under name of Millay Last Co., capital stock \$14,000, and moved into new quarters. *August.* Apsley Rubber Co. reduced working force temporarily. — Foundation laid for addition to shoe factory of L. T. Jeffs; to be of wood, 10 x 80 feet, four stories. *October.* New boiler set up in Robertson & Larkin shoe factory. — F. Brigham & Co. made improvements about factory.

**Huntington.** In July, improvements made about water pit at Chester Paper Co.'s mill. *August.* Chester Paper Co.'s mill shut down for one week. *November.* Highland Mills shut down for two months.

**Hyde Park.** In January, Morris & Ireland Safe Co. purchased land for establishment of new works. — Mule room of B. B. & R. Knight's cotton mill damaged by fire. — Strike occurred among mackintosh makers in Boston Gossamer Rubber Co. *March.* Foundation for new Morris & Ireland Safe Works begun. — John Scott, proprietor of Wilton Wool Scouring Mill, died. — Readville Rubber Co. dissolved by Supreme Judicial Court. *May.* Morris & Ireland Safe Co. completed plant, consisting of seven one-story brick buildings. — B. B. & R. Knight, cotton goods, made enlargements and repairs. — Hyde Park Co. incorporated; capital stock \$15,000. *June.* American Tool & Machine Co. adopted nine-hour schedule. — Hood & Reynold's dental manufactory and Leslie's planing mill damaged by fire. — Strike occurred among employes of Clifton Manufacturing Co., clothing. *August.* Bleakie's woollen mill resumed operations in all departments. *November.* Bleakie's woollen mill ran on short time.

**Ipswich.** In February, Thompson & Claxton Heeling Manufacturing Co. sold out to S. A. Boynton. *May.* James Graffum resumed carriage building and repairing business. *June.* Fund raised by Board of Trade for establishment of shoe factory. — New York Shoe Manufacturing Co., of Lynn, began erection of factory; to be of wood, 50 x 150 feet, two stories. *July.* John A. Johnson shut down shoe factory for one week for repairs. — Ipswich Building Association formed to erect manufactories; capital stock \$7,000. — Plans drawn for addition to Ipswich Woollen Mills; to be of brick, 45 x 100 feet, one story. *August.* Automatic fire sprinklers placed in every room in Ipswich Woollen Mills. *October.* Addition built to office of Ipswich Woollen Mills.

**Kingston.** In March, machinery in Old Colony Rivet Factory removed and shipped to Taunton. *April.* Six new tack machines placed in H. C. & W. S. Cole's factory.

**LAWRENCE.** In January, Wimple Bar Shoe Co., formerly of South Boston, removed to this city. — New firm under name of Lawrence Knitting Co. leased building and machinery formerly run by J. H. Melledge & Co., and began manufacture of hosiery. *February.* Archibald Wheel Co. increased capital stock \$30,000. *March.* Operations begun at Robert Carruthers' reed and loom harness factory. — Washington Mills Co. leased woollen mill property at South Coventry, Ct. — Emmons Loom Harness Works and Essex Paper Box Co. damaged by fire. *April.* Fires for month; furniture factory of Wm. H. Godfrey and sausage factory of E. B. Galloway & Son. *May.* The L. Sprague Co. purchased property of Lawrence Lumber Co. — Work begun on erection of new brass finishing factory for J. E. Watts; to be of brick, 53 x 30 feet, three stories. — Board of Trade raised \$30,000 for new shoe factory for Kimball Bros., formerly of Kennebunk, Me.; to be of wood, 250 x 50 feet, four stories; foundation started in July. — W. R. Hamilton & Son ran nights. — Strike of weavers occurred in Arlington Mills. *June.* Work of excavating begun for addition to E. F. Lewis' wool scouring house; to be of wood, 50 x 83 feet, three stories. — New looms placed in upper Pacific Mills. — New factory of Briggs & Allyn Manufacturing Co. dedicated and occupied. — Everett Mills increased capital stock \$303,600 and decreased it \$3,600. — Globe Worsted Mills increased capital stock \$60,000. — Strike occurred among spinners in Everett Mills. *July.* Wages of wool sorters in Arlington Mills reduced. — Phillips & Kunhardt, Brown & Ackroyd, and Arlington Mills ran overtime. — Bacon Paper Co. shut down for repairs and improvements. — Old storehouse belonging to Munroe Paper Co. destroyed by fire. *August.* Following shutdowns occurred owing to dull trade: Arlington Mills, Everett Mills, Atlantic Cotton Mills, Washington Mills, Munroe Paper Mills, Pemberton Cotton Mills, Pacific Mills, and Stedman & Smith. — L. Sjöström & Son's dye works resumed operations after brief shutdown for repairs. — Repairs made about Munroe Paper Mills and Everett Mills. — Four new boilers set up in Pemberton Mills. — Bacon Paper Co. resumed operations with reduced force. *September.* Globe Worsted Co. started up. — Three new wool scouring machines set up in E. F. Lewis' plant. — Lawrence Improvement Co. incorporated; capital stock \$45,000. — Pemberton Co. reduced help from 698 to 81 persons. — Following mills resumed operations with reduction in wages: Pacific, Atlantic, Arlington, Phillips & Kunhardt, and Washington. — Strike occurred among loom fixers in Washington Mills. — Everett Mills shut down during entire month. *October.* J. H. Horne & Sons Co., paper mill machinery, reduced wages. — Everett and Pemberton Mills started up in full. — Work begun by Kimball Bros. in new shoe factory. — Arlington Cotton Mills suspended operations indefinitely. — Lower Pacific Mills

started up all departments on short time and with reduction in wages. — Everett Mills ran seven hours a day, five days a week. — Phillips & Kunhardt closed all departments except finishing, owing to lack of orders. — Lawrence Line Co. increased capital stock \$10,000. *November.* All tenants of Pemberton Mills corporation houses notified that no rent would be charged for time that mills were shut down. — Lower Pacific Mills ran full time. — Phillips & Kunhardt started up on short time. — Merrimac Paper Co. began operations in new mill. — Russell Paper Co. started up. — Washington Mills shut down in part. — Arlington Mills ran overtime but with reduced force. — Dyeing department in lower Pacific Mills shut down for repairs. — Following mills started up in full: Atlantic, upper and lower Pacific, Lewis Wool Scouring, and Farwell Bleachery. *December.* Arlington Mills added new system of warping and spooling yarns. — Wamesit Shoddy Mills shut down owing to break in engine. — Foundation of dyehouse for Washington Mills completed; building to be of brick, 50 x 100 feet, one story. — Arlington Mills shut down in part for ten days. — Strike occurred among weavers in Washington Mills.

**Lee.** In January, plater and polisher set up in Tanner & Faxon paper mill; later in month mill destroyed by fire. — A. W. Eaton Paper Co. incorporated; capital stock \$25,000. *February.* E. & S. May Paper Co.'s mill shut down two weeks for repairs. — New machinery and separate room for rag cutter added to Eagle Mill. — Eaton, Dikeman, & Co. added new dynamo. *April.* D. M. Collins & Co., of Pittsfield, bought paper box plant of Hurlbut Paper Co. and added it to their plant at new knitting mill. — Stockhouse of Hurlbut Paper Co. destroyed by fire; to be rebuilt. — A. W. Eaton Paper Co. reduced capital stock \$13,000. *June.* Seventeen employes in Columbia Paper Mill suspended for two months owing to lack of orders. — Clark & Spencer Machine Co. adopted Saturday half-holiday system. — Thistle Wire Co.'s mill damaged by fire. *July.* A. W. Eaton Paper Co. bought Moreley Paper Mill which had been leased six months previously with that privilege. *August.* Smith Paper Co. reduced wages. — Three paper mills shut down temporarily. *September.* Eagle Mill started up on full time. — A. W. Eaton Paper Co. sold out and consolidated with E. & S. May Paper Co. as the Eaton, May, & Robbins Paper Co. *October.* New boiler set up in Thistle Wire Mill. — E. A. Houston placed new shingle machine in his mill. — Clark & Spencer built small addition to foundry plant. — Eight new carding machines placed in Bostwick Shoddy Mill. *November.* Mills of Eaton, May, & Robbins Paper Co. shut down for one week. *December.* Geo. K. Baird & Bros. ran paper mill four days per week. — Eaton, May, & Robbins Paper Co. shut down Moreley Mill. — Benton Bros., paper, started up on half time. — Hurlbut Paper Co.'s mill shut down temporarily.

**Leicester.** In January, factory of L. S. Watson Manufacturing Co. ran overtime. *February.* Twenty new card machines placed in J. & J. Murdock's card clothing factory. *March.* Main shaft at J. & J. Murdock's card clothing factory broke. *June.* L. B. Butler, woollens, began erection of one story brick addition to picker house. *July.* C. W. Warren & Son completed enlargement of factory. *August.* Following shutdowns noted: G. W. Olney, woollens, to put in new water wheel, and Lakeside Manufacturing Co. and A. W. Darling, satinets, dull trade. *September.* Part of employes at J. & J. Murdock's card clothing factory dismissed owing to lack of work. — E. G. Carlton & Sons resumed operations after brief shutdown for repairs. — A. W. Darling's satinet mills started up with reduction in wages. *October.* L. S. Watson Manufacturing Co., J. & J. Murdock, C. W. Warren & Son, and Rochdale Mills ran on short time. — E. D. Thayer's woollen mill started up on full time with reduction in wages. — A. E. Smith and Eli Collier reduced wages of employes. — Valley Woollen Mill resumed operations. — Geo. W. Olney reduced persons employed from 75 to 4 during September and October. *November.* New machinery added to A. W. Darling's satinet mills. — G. W. Olney's woollen mill started up with reduction in wages. — E. D. Thayer's woollen mill ran on short time. *December.* G. W. Olney, woollens, added new water wheel during shutdown. — John D. Clark, woollens, died, aged 55 years. — A. Howarth & Son, woollens, started up after shutdown of three days. — Following firms ran on reduced time: C. W. Warren & Son, Central Card Clothing Co., J. & J. Murdock, and L. S. Watson Manufacturing Co. — Electric light plant damaged by fire.

**Leominster.** In January, Pierce Construction Co. organized to construct electric railroads and manufacture railway supplies; capital stock \$9,000. — Bay State Shirt Co. went out of business; no successor. *February.* W. H. Jewett & Co., pianos, occupied new factory. — Leominster Manufacturing Co. formed to manufacture horn goods; capital stock \$50,000. *April.* Wachusett Shirt Co. increased facilities by additional stitching room and thirty-five new machines. — Jewett Piano Co. incorporated; capital stock \$20,000. *May.* F. W. Osgood and E. A. Newton succeeded C. A. Whitcomb, horn goods. — A. A. Tisdale and



B. A. Heath, reed goods, formed co-partnership. — F. A. Whitney Carriage Co. began erection of new factory; to be 40 x 120 feet, two stories and basement. — B. F. Blodgett & Co. began erection of new office building. *June.* Repairs and improvements made at Union Desk Co.'s plant. — Work begun on erection of new chimney and boiler house at Tisdale Factory. *July.* Geo. W. Wheelwright Paper Co. and Union Desk Co. resumed operations. — Crawford Stewart, stone work, died. — C. J. Cobleigh Piano Case Co. changed its name to Richardson Piano Case Co. — Factory of Damon & Howe, horn workers, damaged by fire. *August.* F. A. Whitney Carriage Co.'s factory and Sun Enamel Works resumed operations. — Tilton & Cook, horn workers, purchased old Richardson carriage factory. — Improvements made about Merriam, Hall, & Co.'s factory. *September.* H. M. Richardson leased plant of Wheeler & Hewes Harness Co. at South Framingham for five years, for manufacture of baby carriages, toys, etc. — Wachusett Shirt Co. and F. G. Smith Piano Case Co. resumed operations. — Repairs made about A. W. Colburn & Co.'s factory. — Operations resumed at Tenney & Porter's comb factory. — Whitney-Reed Chair Co. incorporated to manufacture fancy chairs, baby carriage bodies, and gears; capital stock \$50,000. *October.* Union Desk Co. resumed operations. — Richardson Piano Case Co. ran on nine-hour time. *November.* Wachusett Shirt Co. increased working time. — Leominster Worsted Co. increased working time and reduced wages. — Union Desk Co. began erection of new factory. — Mather & Winn Co. incorporated; capital stock \$15,000. *December.* Wachusett Shirt Co. ran five days per week. — W. S. Reed Toy Co. enlarged plant and added new engine. — J. A. Stowell acquired control of manufacture of Grosvenor shapers, formerly made by J. P. Grosvenor of Lowell.

**Lexington.** In March, Lexington Print Works increased capital stock \$12,000.

**Lincoln.** In November, additions to pulp mill completed.

**Littleton.** In January, addition to suspender factory completed. *December.* Geo. W. Richardson's lumber mill and storehouse destroyed by fire.

**Longmeadow.** In September, W. W. Coomes, spectacle and thimble manufacturer, died.

**LOWELL.** In January, new Pilling shoe factory completed. — Plant formerly belonging to Coburn Shuttle Co. started up by Parker & Sons, bobbin manufacturers. — New mill built for light manufacturing; brick, 60 x 60 feet, three stories. *February.* Haworth & Watson bought land for extension of copper tube works. — Abram H. Sherman scrap leather, removed business to Nashua, N. H. — John Pilling Shoe Co. incorporated, capital stock \$10,000; new factory dedicated. — Elevators placed in Appleton Mill. — Tremont & Suffolk Mills made change in character of product. — Robert Carruthers of Lawrence opened shop for manufacture of loom harness and reeds. — Work resumed upon new mill of Lowell Manufacturing Co., to be 130 x 50 feet, five stories; to contain carding and worsted spinning departments. — Lowell Iron Co. organized; capital stock \$15,000. — Fires for month: James Gunn Spool & Bobbin Co. and G. L. Cady, machinists' tools and supplies. *March.* Shaw Stocking Co. moved into new mill. — Whittier Cotton Mills ran nights. — Thorndike Manufacturing Co. began on Saturday half-holiday time. *April.* D. C. Brown Manufacturing Co. sold wire heddle business to L. S. Watson Manufacturing Co. of Leicester, twine harness business to American Twine Harness Association, and loom reed business to Robert Carruthers. — New speeders put in carding department of Boott Cotton Mills. — Lowell Wind Mill Co. and Spofford Manufacturing Co. of Peterborough, N. H., consolidated under name of Lowell-Spofford Manufacturing Co.; capital stock \$100,000. — Addition to laboratory of C. I. Hood & Co. begun; to be 163 x 35 feet, four stories. *May.* Operations begun in carding and worsted spinning departments of Lowell Manufacturing Co.'s new mill. — Standard Worsted Co. ran part of mill nights. — Drying room of Coburn Shuttle Co. damaged by fire. — Strikes for month: Middlesex Co. (web finishers), Thorndike Mills (weavers), and employés in Pilling's shoe factory. *June.* Suit of Tremont & Suffolk Mills against City of Lowell for abatement of taxes decided in favor of Mills. — Work begun on new three story machine shop; to have a frontage of 250 feet, with ell at each end of 120 feet. — Merrimack Manufacturing Co., United States Cartridge Co., and United States Bunting Co. shut down for four days. — Co-partnership under name of United States Bunting Co. dissolved and new one formed. *July.* Foundation started for addition to Massachusetts Cotton Mills; to be of brick, 60 x 150 feet, three stories. — Weavers discharged from Merrimack Mills owing to lack of roving. — New time schedule went into effect at Middlesex Mills. — A. L. Wright reduced number of employés in machine shop owing to lack of orders. — Work of excavating begun for Geo. W. Fifield's machine shop; to be of brick, 60 x 370 feet, three stories. — Bradbury-Stone Storage Battery Co., with number of auxiliary companies at Sioux Falls and Kansas City, merged into

one corporation to be known as Bradbury & Stone Electric Storage Co. — Criterion Knitting Co., Massachusetts Cotton Mills, and Merrimack Print Works added new machinery. — Repairs made on boiler house at Hamilton Mills. — Lowell Waste Co. organized; capital stock \$40,000. — Lowell Bleachery ran but four days a week. — Shutdowns for month: United States Cartridge Co., John M. Pevey's cotton mill, F. S. Perkins' machine shop, and Pilling shoe factory owing to dull trade; Lamson Cash Carrier Co. for annual vacation. *August.* Lamson Cash Carrier Co. resumed operations in full. — Massachusetts Mohair Plush Co. reduced force. — Wamesit Power Co. started up plant on short time. — Merrimack Clothing Co. organized to manufacture clothing; capital stock \$25,000. — Lawrence Manufacturing Co. added new machinery. — Novelty Knitting Machine Co. removed from Chelmsford to this city. — Shutdowns for month: Otis Allen & Sons' box shop, Lowell Bleachery, Merrimack Manufacturing Co., Appleton Manufacturing Co., Belvidere Woollen Manufacturing Co., Pickering Knitting Co., Hamilton Print Works, L. W. Faulkner & Sons, Tremont & Suffolk Mills, Middlesex Mills, J. M. Stover (shoes), Lowell Manufacturing Co., and John Pilling Shoe Co. (for two months). — United States Bunting Co. ran mills but four days a week. — Standard Worsted Co.'s mill damaged by fire. *September.* Sterling Mills resumed operations after three weeks' vacation. — Hamilton Manufacturing Co. put in new 250 horse power engine. — Boott Cotton Mills put in new fly-frames. — Break in main belt at United States Cartridge Co.'s plant caused brief shutdown for repairs. — Repairs and improvements made about lower plant of Appleton Mills. — American Wire Goods Co. reduced persons employed from 24 to 2 during August and September. — All the mills resumed operations except Appleton and Tremont & Suffolk, most of them with reduction in time or wages. — Park Worsted Mills shut down entire month. *October.* Tremont & Suffolk Mills started up. — Kitson Machine Co. reduced force. — Merrimack Manufacturing Co. shut down on account of accident to engine. — Appleton Mills, Pickering Knitting Co., and Lawrence Manufacturing Co. started up. — Lowell Manufacturing Co., Sterling Woollen Mills, and Shaw Stocking Co. ran on short time. — Strike occurred among slubbers in Tremont & Suffolk Mills. *November.* Belvidere Woollen Mill No. 2 reduced running time to 40 hours per week. — Criterion Knitting Co. started up on full time after two months' shutdown. — Hamilton Co. began enlargement of print works. — Faulkner Mills resumed operations on full time. — Lowell Manufacturing Co., after shutdown for stock taking, resumed operations. — Wamesit Mills shut down temporarily owing to accident to engine. — Merrimack Print Works shut down for stock taking. — United States Bunting Co. and Lowell Machine Shop ran on short time. — American Bolt Co. started up after shutdown of two weeks. — J. S. Jacques & Co., shuttles, ran with reduced force. — United States Cartridge Co. resumed operations on full time. — Lowell Manufacturing Co., carpets, shut down; started again in December. — Massachusetts Mohair Plush Co. shut down eight weeks and Howard Stocking Co. six weeks, owing to dull trade. — Stott Bros. ran on two-thirds time. *December.* Belvidere Woollen Mills and Sterling Mills ran on two-thirds time. — Hamilton Manufacturing Co. shut down two weeks for stock taking and repairs. — Lowell Hosiery Co. ran on full time. — Shaw Stocking Co. reduced wages. — Lawrence Manufacturing Co. increased force of cotton weavers. — United States Bunting Co. ran three days per week. — Lawrence Manufacturing Co. shut down one mill for repairs. — Dryhouse of W. H. Parker & Son, spools and bobbins, destroyed by fire. — Howard Stocking Co. shut down for entire month.

**Ludlow.** In February, Ludlow Cordage Co. incorporated; capital stock \$100,000.

**Lunenburg.** In January, new boiler set up in Augustus Taylor's saw mill.

**LYNN.** In January, James W. Ingalls & Son, shoes, succeeded by Chas. H. Ingalls & Co. — J. R. Sherry & Co. established to manufacture shoes. — Chas. E. Harwood Co., soles, etc., incorporated; capital stock \$75,000. — Seymour & Morse, shoes, succeeded by Seymour & Jackson. — Moulton Leather Co. incorporated; capital stock \$50,000. — G. C. Davis, formerly of Beverly, started business in West Lynn. — Strike occurred among lasters in Leary & Luddy's factory. — Fires for month: Placide Hebert, shoes; A. A. Pitman & Co., shoes; Fred Lamphier, shoe tongues. *February.* Dickinson, Fisher, & Lane, slippers, succeeded by Fisher & Lane. — C. M. Howard established to manufacture shoes. — Lynn Counter Co. organized. — Wm. H. Clark & Co., heels, taps, etc., dissolved. — Timson & Horgan, shoes, removed to new quarters. — Atkins, Hoyt, & Co., cut soles, organized. — R. Y. Russell Printing & Paper Box Co. incorporated; capital stock \$12,000. — General Electric Co. resumed operations after shutdown for stock taking. — Dickinson Shoe Co., slippers, organized. — Travis Bros.' Shoe Co. incorporated; capital stock \$7,000. — Baker & Lord, shoes, removed to new quarters. — Stock company formed under name of C. E. Smith Shoe Co.; capital \$100,000. — Amos F. Breed, shoes, succeeded by C. A. Rogers & Co. — New machine shop started by

Tirrell, Ellis, & Co. — Strikes for month: Harney Bros (trimmers) and A. F. Smith (lasters). *March.* D. J. Richard and W. B. Littlefield formed limited partnership; capital \$10,000. — C. C. Logan & Co., shoes, dissolved. — B. G. Patten Co. closed business; no successor. — Part of factory A at Thomson-Houston plant ran nights. — John Harmon, shoes, died, aged 90 years. — Shillaber & Co., shoes, leased new factory. — Welch & Landregan equipped factory with lasting machines. — New steel foundry of General Electric Co. started up. — E. B. Newhall & Co., shoes, sold out to Milford Shoe Co. — Valpey & Anthony block destroyed by fire; among the losers were Lynn Cycle Co.; T. W. Tyler & Co., leather supplies. John Macfarlane & Son, printers; Maurice Flynn, shoes; and Brophey Bros. Shoe Co. — Strikes for month: Leary & Luddy (cutters), General Electric Co. (chippers), V. K. & A. H. Jones (hand-turned workmen), and A. B. Martin & Co. (finishers and putters out). *April.* Foundation laid for addition to morocco factory of A. B. Martin & Co.; brick, 45 x 115 feet, two stories. — G. T. Monies & Co. established to manufacture heels. — E. L. Burwell, shoes, succeeded by Burwell Shoe Co. — L. J. Richards & Co., shoes, started up new factory. — Freeman & Johnson, shoes, dissolved; business continued by Geo. L. Freeman under style of Geo. L. Freeman & Co. — Dickinson Shoe Co. succeeded by Dickinson & Cobb. — Following shoe firms dissolved: S. J. Hollis & Co., Richard Bros., and J. L. Towne & Co. — Johnston Leather Coat Co. dissolved by Supreme Judicial Court. — Bachelder & Lincoln granted their men nine-hour day. — Strike occurred among Welch & Landregan's cutters. *May.* L. J. Richards & Co. discarded lasting machines. — L. B. George, formerly of George & Bro., cut soles, died, aged 68 years. — Boston Lasting Machine Co. leased rooms for lasting machine school. — Hoyt & Rowe established to manufacture slippers. — Changes in firms for month: Sweetland & Bailey, shoe patterns, dissolved, business continued by John B. Sweetland; George & Bro., cut soles, succeeded by H. M. George & Co.; John R. Story, shoes, succeeded by Harris & Story; Timothy Riordan & Co., shoes, and H. W. Eaton & Co., soles, dissolved. — Strikes for month: employes of Edw. L. Burwell, Creighton Bros. (lasters), Welch & Landregan (cutters), and Faunce & Spinney (cutters). *June.* Chas. M. Howard placed several lasting machines in factory. — John J. Horgan of Timson & Horgan, shoes, died, aged 24 years. — Lynn Counter Co. removed to Stillwater, N. Y. — John P. Spinney, retired shoe manufacturer, died, aged 68 years. — Breed & Son began erection of new factory to be occupied by Lynn Box Co. — James Phelan's new shoe factory dedicated. — Mower & Cross, shoes, dissolved; everything sold but machinery and fixtures; no successor. — Lynn Stain Co., shoe stains, sold out to Walter E. Lummus. — New York Shoe Manufacturing Co. began erection of factory at Ipswich; to be of wood, 50 x 150 feet, two stories. — Thos. G. Plant Co., shoes, incorporated; capital stock \$150,000. *July.* Portion of factory C of Thomson-Houston plant ran nights. — Emery wheel burst at River Works of Thomson-Houston Co. — S. N. Breed, shoes, put in 750 horse power engine at factory. — N. D. C. Brown, cut soles, shut down for balance of year. — Reduction of employes made at Thomson-Houston Works. — H. Y. Emery, shoes, retired from business, no successor. — Geo. Faulkner, leather, employed no workmen during July and August. — Deaths for month: Jas. H. Aborn, shoes, aged 57 years and S. B. Fuller, shoes, aged 63 years. — Factory of Lynn Last Co. damaged by fire. *August.* A. F. Smith's shoe factory ran on half time. — Welch & Landregan, shoes, secured quarters in Salem and will remove to that city. — Thomson-Houston Works ran but three days a week, and iron foundry, steel foundry, pattern shop, and machine shop shut down indefinitely, owing to dull trade. — Rollins & Glazier, machinists, reduced persons employed from 24 to 7. — W. G. S. Keene, shoes, died, aged 50 years. — Gaffrey & Hardiman started up new shoe factory. — New nailing machines set up in Plant Co.'s shoe factory. — P. Lennox & Co., morocco, resumed operations after shutdown owing to dull trade. — Harden & Blanchard, shoe stock, closed factory during months of August and September. — Strike occurred among cutters in F. W. Breed's factory. *September.* Thomson-Houston Works resumed operations with reduction in wages. — D. J. Crowley & Co., boots and shoes, sold out. — Lynn Box Co. occupied new quarters. — Kallock, Logan, & Co., shoes, dissolved; business continued by T. H. Logan. — Kallock & Earp began manufacture of machine-turned slippers. — Factory of Wm. Lummus, sheepskin finisher, closed during August and September. — E. G. Wallace, shoes, died, aged 70 years. — Strike of employes occurred in T. G. Plant Co.'s shoe factory. *October.* Pevear & Co., morocco, started up factory. — Lambert Jackson, bookbinder, added new automatic machine for manufacture of memorandum-book covers, the invention of Willard P. Jackson, son of Lambert Jackson. — Moses Norris, morocco, died, aged 83 years. — Operatives in Faunce & Spinney's shoe factory started an insurance association by which a member unable to work may draw \$5 per week for ten weeks, and in case of death the widow or child will receive \$50; dues ten cents per week. — M. H. Whittredge, shoes, shut down indefinitely. — Strikes for month: T. G. Plant Co. (stitchers), A. F. Smith (lasters), J. C. Carr (edgemakers), and A. M. & J. H. Preble (edgemakers). *November.* Thomson-Houston Electric Co. reduced wages and ran on short time; later in month increased force and working time. —



E. & E. W. Crowell began manufacture of boots and shoes. — New stock company formed to manufacture mirrors by new process. — F. W. Breed, shoes, reduced wages. — A. F. Smith discharged lasters; shoes hereafter to be lasted by process invented by Mr. Smith. — Strike occurred among button-hole makers in F. W. Breed's factory. *December.* E. M. Lapierre removed factory to new location and erected addition. — Pevear & Co., morocco, ran on half time. — A. F. Smith, shoes, closed Boston store.

**MALDEN.** In January, private firm of Wadsworth, Howland, & Co. became a corporation; capital stock \$200,000. *February.* Controlling interest in Cochrane Carpet Works purchased by New York and Philadelphia syndicate. *March.* Hugh K. Moore, organizer of American Steam Gauge Co., died, aged 77 years. — Strike occurred among employes of A. B. Palmer and W. B. Keen & Sons, carriage makers. *April.* New factory of Robinson Bros. completed; brick, 208 x 65 feet, three stories; 150 hands to be employed in manufacture of fancy soaps. — Repairs made and stock taken at Boston Rubber Shoe Co.'s plant. — New knitting machinery placed in Collins Knitting Mill. — Foundation laid for addition to Gould Bros.' herb factory; to be of wood, 59 x 29 feet, two stories. — Cochrane Carpet Co. ceased manufacturing: John Cochrane, Jr., ran on temporary lease to close out stock. *May.* Work begun on Jordan & Christie's new brush factory; to be of wood, 50 x 133 feet, three stories, with brick boiler house, 28 x 34 feet; completed in September. *June.* Work begun on addition to Collins Knitting Mill. — Foundation laid for engine and boiler house at Boston Rubber Shoe Co.'s works; to be of brick, 45 x 42 feet and 40 x 53 feet, one story. *July.* Boston Rubber Shoe Co. began erection of building to be used as cement and varnish house; brick and stone, 60 x 70 feet, two stories; also factory to be used for finishing; brick and stone, 235 x 102 feet, three stories. *August.* Massachusetts Wire Co. disposed of its business to the United States Wire & Cable Co., a New York corporation, which later in the year went out of business; Malden factory closed. — Following shutdowns occurred during the month: Boston Rubber Shoe Co., S. E. Vaughan's box factory, Tate & Co.'s wire factory, and Henry L. Albee & Co.'s furniture factory. *September.* Jordan & Christie began manufacture of brushes in new factory. *October.* Webster & Co., tanners, resumed operations after shutdown. — Grip Machinery Co. incorporated; capital stock \$15,000. *November.* Plans completed for Faulkner Machine Co.'s factory; to be of wood, 100 x 40 and 35 x 25 feet, two stories.

**Mansfield.** In June, Crook Bros., of Wrentham, arranged to start yarn mill in this town. — John Gledhill's wool cleansing establishment damaged by fire. *November.* Crook Bros. completed new mill to take place of one destroyed by fire at Wrentham in February.

**Marblehead.** In January, Bird & Stevens, shoes, started up after brief shutdown for stock taking. Thomas Blackler & Co., Robert H. Union, and Litchman Bros., shoes, shut down temporarily. — Larrabee & Keefe established to manufacture shoes. *February.* R. B. Harris, shoes, increased capacity of factory. — John W. Reynolds retired from firm of John W. Reynolds & Co., shoes; business continued by Joseph Daley. *March.* Factory of Trefrey Shoe Co. destroyed by fire. *May.* E. F. Glover, shoes, shut down for balance of year. — Frank Mitchell, shoes, shut down during May, June, July, August, October, November, and December. *July.* David Knell, shoes, shut down for balance of year. — John B. Litchman, shoes, shut down for month. — Shoe factory of John Dooling destroyed by fire. — Chadwell Tucker and Wm. F. Roundy, 2nd, shoes, employed no persons during entire month. *September.* John Proctor, shoes, shut down for balance of year. *October.* E. V. Bartlett, shoes, died. — Frank Millett Shoe Co. employed no workmen during October and November. — Wm. H. Boynton & Son, shoes, employed no workmen during entire month. *November.* Shoe factory of Herbert Lefavour started up under management of Joseph and Wm. Lefavour. *December.* Geo. W. Brown, glue, occupied W. H. Brown's factory at Peabody and ran it in addition to present factory at this place. — Nathaniel E. Lindsey's shoe factory damaged by fire. — John B. Litchman, shoes, increased floor space in Association factory No. 1. — Business of Geo. Hooper, 2nd, closed owing to death of Mr. Hooper; no successor. — Western Shoe Co. organized and leased factory formerly occupied by Wright Bros. and set up new machinery. — No persons were employed in shoe factory of Edward Lefavour during month.

**MARLBOROUGH.** In January, A. B. Howe & Co. added sash and door making to other business. — Chase, Merritt, & Co., shoes, resumed operations. — Germania Electric Co. completed new power house. — Bills & Goddard, cigars, dissolved; business to be continued by each, independently. — Daniel F. O'Connell retired from John O'Connell & Sons, shoes; business continued by remaining partners under same firm name. — *February.* Standard Oil Co. completed new boiler house. — Chase, Merritt, & Co. added new heel-slugging machinery. *March.* E. N. Dearborn sold out his interest in firm of Hollis, Dearborn, & Gale, shoes. —

Rice & Hutchins, shoes, purchased land. — New engine in S. H. Howe Shoe Co.'s factory started. — Feary Bros., spools, ran nights. — New boiler set up in S. H. Howe Shoe Co.'s factory. — J. B. Billings, shoes, shut down for repairs. — New matching machinery placed in E. F. Longley's box factory. *April.* Marlborough Awl & Needle Co. formed to manufacture steel awls and needles; capital stock \$8,000. — A. F. Emery & Co., shoes, shut down. — Chase, Merritt, & Co. added new boiler. *May.* S. H. Howe Shoe Co.'s storehouse completed. — Middlesex Factory shut down for one week. *June.* Foundation of addition to J. F. Davey's machine shop completed; building to be of wood, 30 x 70 feet, four stories. — New boiler added to E. F. Longley's box factory. *July.* Germania Factory shut down partially. — New 12 horse power boiler and engine placed in M. C. Wheeler's machine shop. — Foundation of gas plant started for Marlborough Gas Light Co.; to be of brick with granite trimmings, 30 x 114 feet, one story. — Chase, Merritt, & Co., shoes, made repairs. *August.* E. C. Lincoln's shirt factory shut down on account of dull trade. — Boyd & Corey Boot and Shoe Manufacturing Co. ran three days per week. *October.* H. S. Moore established manufacture of children's shoes. *November.* Machinery set up in Marlborough Awl and Needle Works. — Middlesex Shoe Factory started up after temporary shutdown for stock taking. *December.* S. H. Howe Shoe Co. posted notice of cutdown in wages to take effect January 6, 1894. — J. A. Frye, shoes, reduced wages.

**Maynard.** In July, Assabet Manufacturing Co., woollens, made changes in looms and added new 300 horse power boiler; ran but five days per week during repairs. *October.* Wages of operatives in Assabet Manufacturing Co. reduced. *December.* Assabet Manufacturing Co. ran four days per week.

**Medfield.** In July, bonnet wire covering factory of Moses F. Clark & Co. destroyed by fire; rebuilt. During August the firm was dissolved and business continued by William Marshall.

**MEDFORD.** In January, Warren Mansur, cracker manufacturer, died, aged 54 years. *March.* Strike occurred among employés of Teele & Hill, carriages. *April.* A. S. Symmes, carriages, granted employes ten hours' pay for nine hours' work. *May.* West Medford Paper Co. organized and purchased land for erection of mill, to be of wood and brick, 100 x 260 feet, one story; foundation started in June. — Wainwright Manufacturing Co.'s plant leased to Eastern Syndicate. *August.* A. L. Marlner and H. C. Buck established manufacture of experimental machines. *December.* P. McGowan & Co.'s tannery damaged by fire.

**Medway.** In April, U. S. Linen Co., of Maine, purchased Campbell paper mill privilege to manufacture lint. *May.* New boiler added to F. F. Hayes' canning establishment. *June.* Vose & Cutter Manufacturing Co. formed to manufacture roller chafe irons; capital stock \$5,000. *July.* New England Awl & Needle Co. resumed operations. *August.* Sanford Woollen Co. shut down indefinitely. *September.* Repairs made at Ray & Wilson's wadding mill. — *October.* Ray & Wilson's cotton mills started up.

**Melrose.** In April, Olin F. Ingalls, lumber, died, aged 40 years. *May.* Middlesex Ice Co. incorporated; capital stock \$100,000. — F. P. Baker Moulding Manufacturing Co. dissolved by Supreme Judicial Court. *August.* Ladd & Putnam began manufacture of wax for shanks, heels, and bottoms of shoes. *October.* S. A. Carleton, hats, died, aged 45 years. *November.* William Bailey, said to be the oldest nail manufacturer in the world, died, aged 92 years.

**Mendon.** In October, Whiting box and shoddy mills totally destroyed by fire.

**Merrimac.** In March, J. B. Judkins & Sons Co. enlarged plant. *November.* Charles Bridges began manufacture of boots and shoes.

**Methuen.** In January, C. C. Briggs enlarged wool-scouring and carbonizing mill and added new scouring machine. *February.* B. T. Wendell, yarn, made addition to factory. *May.* Henry Klous sold shoddy mills to Arlington Co. of Lawrence and purchased James Ingalls' hat factory. *June.* Knitted Fabrics Co. ran nights. — Picker room of Methuen Co. damaged by fire. *July.* Methuen Co. added new machinery. *August.* Methuen Co. shut down for six weeks and Knitted Fabrics Co. shut down for one month. *September.* Methuen Co. resumed operations last week in month. *October.* Working time at Tenney's wool hat factory reduced. *November.* Machinery for C. Frank Swain's new knitting mill set up. — Knitted Fabrics Co. started up in part. — Picker room of Methuen Cotton Mill damaged by fire.

**Middleborough.** In February, Parlor Pride Manufacturing Co. organized to manufacture stove polish; capital stock \$40,000. — Alden & Pratt, shoes, made addition to factory. *July.* Keith & Pratt, shoes, shut down for one month. *August.* Alden & Pratt dissolved; business continued by C. H. Alden & Co. — Keith & Pratt added new staying machine. *October.* Hathaway, Soule, & Harrington started up shoe factory on full time.

**Middlefield.** In January, J. E. Fenner gave up his plant in this town and organized company in Spencer, to be known as Spencer Knitting Co. *December.* Bulkley, Dunton, & Co., paper, shut down.

**Middleton.** In February, basement of A. P. Tyler's shoe factory flooded, owing to break in water main. *October.* E. J. Hickey, paper, shut down to put in additional machinery.

**Milford.** In January, Milford Electric Light Co. added new machinery. *March.* Hussey Bros. added new machinery. — Excelsior Shoe Co. shut down permanently. *April.* Milford Pink Granite Co. increased number of persons employed. *June.* Milford Business Men's Association purchased land for Franklin Iron Foundry, owned by Goff & Welch, which the Association had induced to remove to this town; foundation started in July; main building to be 102 x 47 feet, one story, with monitor roof; office and pattern shop, 60 x 25 feet, two stories; pickling and shipping shop, 20 x 20 feet, two stories; core shop, 20 x 20 feet, one story; store shed, 120 x 30 feet, one story. *July.* Milford Shoe Co., Clapp, Huckins, & Temple, and Colburn, Fuller, & Co. ran four days per week. *September.* Milford Shoe Co. resumed operations with reduced force. — Colburn, Fuller, & Co. shut down temporarily, starting up in October with reduced force and wages. *November.* Post Office Box Factory reduced number of persons employed. — Greene Bros. resumed operations.

**Millbury.** In January, Richard T. Buck, proprietor of Riverlin Edge Tool Works, died. — Aldrich Woollen Mills shut down for few days on account of accident to engine. *February.* John Rhodes Warp Co. added two new speeders. *March.* Crane & Waters Co. shut down for repairs. — Edwin Hoyle & Son, woollens, added three new looms. — Work begun on new shops for C. D. Morse Manufacturing Co.; one building to be 64 x 20 feet, one story, with two-story extension, 16 x 14 feet; main building to be 63 x 42 feet, two stories with addition, 32 x 20 feet, two stories; completed in April. — Hosiery mill of Crane & Waters Co. damaged by explosion. *April.* Card room of Crane & Waters Co.'s hosiery mill damaged by fire. *May.* A. J. Underwood of Worcester purchased H. T. Merriam's foundry. — H. T. Merriam purchased land for erection of new foundry; to be of wood, 58 x 36 feet, one story; also machine shop, 56 x 25 feet, two stories. — Edwin Hoyle & Son shut down temporarily; resumed operations in June. *June.* Twenty-four new looms placed in Cordis Mills. — Whitney, McDuff, & Co. added new machinery. — M. A. Lapham made addition to mill. *July.* H. W. Hakes Manufacturing Co. started up after brief shutdown. — C. T. Aldrich, satinet, shut down to add new machinery. — A. J. Underwood & Co. made improvements in and added new machinery to foundry. — Weaving and finishing rooms of Lapham's woollen mills resumed operations. — Cordis Mills shut down for four weeks, owing to lack of orders. — Chas. Buck, edge tools, added new 80 horse power boiler. — Whitney, McDuff, & Co., linen thread, increased capacity and employed extra hands. *August.* Millbury Cotton Mills resumed operations after brief shutdown for repairs. — Buck Edge Tool Co. started up in new factory. — Crane & Waters Co. and M. A. Lapham ran with reduced force. *September.* Work begun on addition to C. D. Morse & Co.'s plant. — Cordis Mills added new machinery. — Following mills started up: M. A. Lapham, John Rhodes Warp Co. and Cordis Mills, with cutdown in wages. *October.* John Rhodes Warp Co. shut down its two mills. — Break in engine at Buck Edge Tool Works caused brief shutdown for repairs. — Satinet mills of C. T. Aldrich ran but eight hours a day. — M. A. Lapham, woollen goods, died. — Crane & Waters Co. started up portion of machinery on hosiery and knit goods after long shutdown. — Woollen mills of M. A. Lapham closed one day on account of funeral of Mr. Lapham. *November.* Crane & Waters Co. ran on full time with reduction in wages. — E. Hoyle & Son resumed operations. — John Rhodes Warp Co. started up Pinafore Mill after month's shutdown. — Strike occurred among spinners in Aldrich Woollen Mills. *December.* Atlanta Mills, yarns, resumed operations. — Crane & Waters Co. shut down for three weeks. — Buck Edge Tool Works started up after ten days' shutdown. — John S. Rich's shoddy mill totally destroyed by fire. — Whitney, McDuff, & Co. made reduction in wages. — John H. Lyon & Co., New York, severed connection with Dority Mill Co.; mill ran but four months during past year.

**Millis.** In January, Millis electric light plant slightly damaged by explosion; shut down for repairs. *August.* Steel Edge Stamping & Retinning Co. made reduction in wages. *October.* New stockhouse, 60 x 25 feet, two stories, completed at Waite's felt mill.



**Milton.** In February, T. Strangman & Co. enlarged factory. *March.* Strike occurred among employés of T. Strangman & Co.

**Monson.** In January, D. W. Ellis & Son's woollen mill shut down owing to accident to main shaft. *May.* D. W. Ellis & Son started up after shutdown for repairs. *July.* Weave and card rooms of R. M. & Theo. Reynold's woollen mill shut down for two weeks; started up again in August. *August.* Monson Woollen Co.'s mill destroyed by fire. — D. W. Ellis & Son shut down for several weeks on account of dull trade. — Hermann & Lichten, straw goods, made improvements. *September.* Reynolds' mill shut down on account of dull trade. — S. F. Cushman & Sons' woollen mills ran three days per week. *November.* D. W. Ellis & Son started up. — Branch mill of S. F. Cushman & Sons shut down.

**Monroe.** In December, James Ramage Paper Co. increased capacity.

**Montague.** In January, foundation of mill started for Keith Paper Co.; to be of brick with granite base, 300 x 41 feet, four stories. *February.* Clark Machine Co. ran nights. *March.* Keith Paper Co. made additions. *April.* Keith Paper Co. added new machinery. *May.* Montague Paper Co. made improvements. *June.* John Russell Cutlery Co. shut down two weeks for repairs. *July.* Keith Paper Co. began new stockhouse. *September.* Turner's Falls Cotton Mills ran on half time. *November.* Montague Paper Co. added two new boilers. *December.* New Keith Paper Mill completed and machinery set up.

**Monterey.** In December, Berkshire Electric Light, Heat, and Power Co. organized; capital stock \$10,000.

**Natick.** In February, Driscoll & Eaton Manufacturing Co.'s shoe shop destroyed by fire. *March.* W. T. Hanchett, shoes, died. *May.* Strike occurred among reed workers in Phenix Rattan Co. *June.* Newell Cooper's shirt factory damaged by fire. *July.* Driscoll & Eaton Manufacturing Co. shut down temporarily. *September.* W. F. Pfeiffer & Co., shoes, resumed operations.

**Needham.** In August, Waban Paper Mills destroyed by fire.

**NEW BEDFORD.** In January, new company known as Enterprise Felt Hat Manufacturing Co. formed to manufacture men's felt hats. — New Bedford Copper Co. made improvements. — Howland Mills provided means for carrying its help to and from work. — New Bedford Brass Foundry established manufacture of castings and brass railing. — One hundred and twelve looms placed in new Hathaway Mill and work begun. — Bristol Manufacturing Co.'s new mill for manufacture of print cloth completed. — New mill of Columbia Spinning Co. began operations. — Taber Art Co. incorporated; capital stock \$300,000. — Weedon Manufacturing Co. reduced capital stock \$38,000. — Foundation of addition to Hiram Wheaton & Sons' soda water factory completed; building to be of wood, 60 x 29 feet, two stories. *February.* Howland Mills Co. made addition to plant. — Grinnell Iron Foundry changed hands. — Wilson & Knapp Manufacturing Co. retired from business; no successor. *March.* Potomska Mills Corporation added new machinery. — Ground broken for addition to Columbia Mill; to be of brick, 24 x 22 feet, and to be used as horse shed. — Strike occurred among carders in Wamsutta Mill No. 6. — Wm. H. Crook, shipsmithing, discontinued; no successor. *April.* Hathaway Mill shut down owing to accident to main shaft. — Columbia Mills Co. voted to increase capital stock to \$750,000. — Foundation of new cotton mill for Columbia Spinning Co. started; to be of brick, 307 x 134 feet, three stories. — Work begun on addition to buildings of Howland Mills Corporation. — Strikes for month: Employés of Geo. L. Brownell, carriages; Clarence Lowell, carriages; and mule spinners in Hathaway Manufacturing Co.'s No. 1 mill. *May.* Bennett Manufacturing Co. increased capital stock \$400,000. — Hathaway, Soule, & Harrington, shoes, added new machinery and increased plant. — Lambeth Rope Co. incorporated; capital stock \$125,000. — Wamsutta Mill Co. began erection of weave shed 214 x 127 feet, three stories. — Bristol Manufacturing Co. added new machinery. — New engine placed in Bennett Mills. — Strike occurred among doffers in New Bedford Manufacturing Co. — Fires for month: Wm. H. Washburn, sash and window frames; Ullman Manufacturing Co., picture frames; and picker room of Hathaway Mill No. 2. *June.* Rotch Spinning Co. voted to increase capital stock from \$500,000 to \$750,000. — Mt. Washington Glass Co. shut down for six weeks. — Addition, 54 x 25 feet, made to boiler house of Bennett Mills. — W. H. Washburn and Ullman Manufacturing Co., whose plants were destroyed by fire in May, leased new quarters and resumed manufacturing. — Office of Grinnell Manufact-

uring Co. enlarged. — New Bedford Machine Shop reduced persons employed from 18 in May to nine in June and to one in September. *July.* Foundation of new cotton mill for Rotch Spinning Co. begun; to be of brick, 130 x 475 feet, two stories. — Morse Twist Drill and Machine Co. decided not to run Saturday afternoons during summer. — Grinnell Manufacturing Co. added new pump house. — Bennett Manufacturing Co. reduced force owing to dull trade. — Acushnet and Hathaway Mills made improvements. — Blossom Bros. began operations at Wilcox Planing Mill. — Shutdowns for month: Onoko Mills Co., temporarily for repairs; Hathaway, Soule, & Harrington, shoes, for two days each week; and John McCullough, ship bread, for balance of year. — New Bedford Street Transportation Co. incorporated; capital stock \$25,000. *August.* Work begun on rope walk for Lambeth Rope Co.; to be of brick, 40 x 860 feet, one story. — Wm. J. Rotch, president of Rotch Spinning Co. and other manufacturing concerns, died, aged 74 years. — Pairpoint Manufacturing Co., silverware, ran four days a week. — Wamsutta Mills made improvements in machinery. — Morse Twist Drill and Machine Co. enlarged plant by addition, 90 x 36 feet, three stories. — Hathaway, Soule, & Harrington, shoes, resumed operations on short time. — New machinery placed in Pierce Cotton Mills. — The following mills shut down for month owing to dull trade: Bennett No. 1, Columbia, Pierce, Potomska No. 1, New Bedford, Wamsutta, Weeden, Howland, and Rotch Spinning Co. — New Bedford Copper Co. and J. C. Rhodes & Co.'s eyelet factory started up after shutdown. *September.* Operations resumed by following mills: Acushnet, Hathaway No. 2, City No. 2, Wamsutta, Pierce, Bristol, Columbia, Bennett, Howland, and Rotch. — New engine added to Bennett Mill No. 1. — Work begun on addition to factory of Morse Twist Drill and Machine Co. — Strikes for month: Hathaway Mill No. 1 (carders and pickers), Acushnet Mills (doffers and back boys), Bristol Mills (speeder tenders). *October.* New cotton house completed for Columbia Spinning Co., 235 x 65 feet. — City Manufacturing Co.'s mill No. 1, Potomska Mill No. 1, Pairpoint Works, and Mt. Washington Glass Works resumed operations. *November.* Bennett Mill No. 1 started up after long shutdown. — Grinnell Mills shut down in part. — F. W. Luscomb Machinery Co. ran full time. — Grinnell Manufacturing Co. added new machinery to picker room. — Acushnet Mills shut down partially owing to accident to engine. — New electric plant erected. — City Manufacturing Co.'s mill shut down temporarily. *December.* New member admitted to firm of Brownell & Co., paints. — Pairpoint Silver Works shut down for two weeks. — New machinery placed in Rotch and Wamsutta Mills. — Following mills resumed operations: Columbia Mill on full time, Potomska Mill No. 2 in part, and weaving room of Potomska Mill No. 1. — Davis & Hatch succeeded by Davis & Hatch Spice Co., F. E. Fowler proprietor.

**Newbury.** In October, real estate, stock, and machinery of Byfield Woollen Mills sold at auction to Jacob F. Brown of Boston. *November.* Byfield Woollen Mills resumed operations temporarily.

**NEWBURYPORT.** In January, C. E. Mercy, hats, added new machinery. *February.* J. L. Currier began manufacture of shoe patterns. *March.* Whitefield Mills dissolved by Supreme Judicial Court. — Peabody Mills increased wages. — Teel & Gorwaiz began manufacture of heel stiffenings. — Strike occurred among C. E. Coffin & Co.'s finishers. *May.* Victoria Mills Corporation incorporated; capital stock \$75,000. *July.* After one week's shutdown, Newburyport Car Manufacturing Co. resumed operations. — C. E. Coffin & Co., hats, shut down for two weeks. — Victoria Cotton Mills added new machinery and made improvements. *August.* Peabody Mills shut down for two weeks. — W. H. Noyes & Bro., combs, ran five days a week. — Newburyport Car Manufacturing Co. and Newburyport Hat Factory shut down; resumed operations in September. — Following firms resumed operations: E. P. Dodge Shoe Manufacturing Co., Newburyport Shoe Co., Dodge Bros., E. F. Tibbetts, and Towle Manufacturing Co. *September.* Peabody Cotton Mills started up after five weeks' shutdown. *October.* Newburyport Car Co.'s works resumed operations after five weeks' shutdown. *November.* E. P. Dodge Shoe Manufacturing Co. ran full time. — Fur department of Coffin & Co.'s hat factory resumed operations. *December.* Addition made to cloth department of Victoria Mills.

**NEWTON.** In January, foundation of addition to Nonantum Worsted Co.'s factory started; to be of brick, 100 x 72 feet, four stories. — Work begun on foundry and boiler house for Pettee Machine Works; buildings to be of brick and iron, 250 x 100 feet, one story. *April.* Factory of United States Fireworks Co. damaged by explosion. *May.* Glue works of Hugh Kelley destroyed by fire. — Elliott Hickory Cycle Co. merged into Pope Manufacturing Co.; old corporation dissolved by Supreme Judicial Court. *June.* Mill of Finlay Paper Co. started up. *July.* Chas. S. Crain, president of Elliott Paper Box Co., died, aged 58 years.

*August.* After brief shutdown, Phipps & Train's silk mill resumed operations on half time. — Nonantum Worsted Co. added new machinery. — Newton Rubber Co. shut down for two weeks; increased capital stock \$20,000. *September.* Robert Bishop's cotton waste mill damaged by fire. — Newton Rubber Co. increased capital stock to \$20,000. — W. S. & F. Cordingly, shoddies, added new boiler. *October.* Pettee Machine Works discharged 150 men and reduced working hours to 44 a week, with reduction in wages. — Newton Rubber Co. shut down indefinitely. — Cordingly Mills resumed work with half the number of workmen and Dudley Hosiery Mills with a cut in wages. *November.* Newton Rubber Co. shut down. — New machinery placed in Nonantum Worsted Mill. *December.* Nonantum Worsted Co. reduced wages.

**Norfolk.** In May, brick addition, 50 x 40 feet, made to City Mills Co.'s felt factory, and in October foundation laid for new dyehouse. *November.* J. L. Fisher's canning factory ran nights. *December.* Norfolk Woollen Co.'s mills shut down indefinitely.

**North Adams.** In January, Swift Refrigerator Co. leased land for erection of new refrigerator building, 105 x 25 feet, two stories. — Greylock Mills resumed operations. *February.* New company known as Berkshire Cycle Co. formed to manufacture bicycles. *March.* Jas. Hunter Machine Co. established manufacture of shafting couplings. — Overflow dam of Johnson Manufacturing Co. carried away. — Strike of weavers occurred in Johnson Manufacturing Co.'s mills. *April.* Singeing department of Windsor Print Co. damaged by fire. — Arnold Print Works shut down for repairs. — A. S. Farnum & Bro., Cheshire, purchased the Whipple lime kiln. — Eclipse Mill shut down owing to accident to water wheel. — Two hundred and fifty horse power engine placed in Dunbar Mills. — Wm. G. Cady & Co., shoes, made improvements. *May.* Windsor Print Co. added new engine. — Blackinton Woollen Co. transferred plant and property to Blackinton Co., a corporation organized under laws of New York; capital stock \$600,000. — W. G. Cady & Co., shoes, ran on half time. *June.* T. M. Colman, cigars, recently burned out, resumed operations in new factory. — North Adams Manufacturing Co., woollens, purchased water privilege from D. M. Wells. — Repairs made on water wheel at Greylock Mills. *July.* W. G. Cady & Co., shoes, and Windsor Print Works shut down temporarily. *August.* S. Blackinton Woollen Co. cut down persons employed from 334 in June to 107 in July and 41 in August, with reduction in wages. — Bartlett Bros.' saw mills destroyed by fire. — W. G. Cady & Co., shoes, resumed operations on half time. — C. F. Sampson Manufacturing Co., shoes, and Windsor Print Works ran three days a week. — Shutdowns for month: Dunbar Mills for two weeks; Canedy & Wilkinson, shoes, for stock taking; Greylock Mills for improvements; and D. J. Barber & Sons, leather, in part. *September.* C. F. Sampson, shoes, died, aged 67 years. — Windsor Print Co. increased working time from three to four days per week. — Following mills started up: Dunbar, on half time; Blackinton Co., with 338 persons employed; Arnold Print Works, with reduced force. *October.* New engine set up in gas works plant. — Greylock Mills closed indefinitely. — Indigo department of Arnold Print Works resumed operations with reduction in wages. — Windsor Print Co. started up on full time. — C. F. Walker began erection of new bobbin factory. *November.* Greylock Mills started up with reduction in wages. — Arnold Print Works started up in full. — Spinning and carding rooms of Johnson Manufacturing Co. started up and running time of other departments increased. — Blackinton Co. increased running time. — Two dyeing machines placed in Arnold Print Works. — Beaver and Eclipse Mills ran on full time. *December.* Linwood Woollen Mills reduced wages. — Greylock Mills started up on full time. — Jas. Hunter Machine Co. posted notice of reduction in wages on account of dull trade. — W. G. Cady & Co. ran full time.

**NORTHAMPTON.** In January, Northampton Cutlery Co. made improvements. — Woods Cutlery Co. shut down for repairs. *February.* John N. Leonard, silk goods, died, aged 53 years. *March.* Mt. Tom Sulphite Pulp Mill ran overtime. *April.* Brown & Bailey, brick, began operations for season. — Norwood Engineering Co. incorporated to establish machine and foundry plants; capital stock \$10,000. *May.* Clement Cutlery Co. added new machinery. — Northampton Street Railway Co. increased capital stock \$100,000 for purpose of constructing electric system. — Addition, 40 x 150 feet, built to Mt. Tom Sulphite Pulp Co.'s mills. — Dam washed away at factory of Horace Lamb & Co.; practically no business done for three months. *July.* Holmes & Dawson leased Crosby's factory. — Central Oilgas Co. resumed operations. — Florence Furniture Co.'s factory damaged by fire. — Nonotuck Silk Co. increased capital stock \$250,000. — Horace Lamb & Co.'s wire mill started up after repairs made to dam. *August.* Norwood Engineering Co. made addition to plant. — Nonotuck Silk Co. and J. N. Leonard Silk Co. ran on half time. — Boston Cash Register



Co. shut down 20th for balance of year.—Northampton Emery Wheel Co. reduced employés 50 per cent. *September.* Mt. Tom Sulphite Pulp Mill resumed operations.—Florence Furniture Co. ran overtime.—Williams Manufacturing Co., baskets, shut down temporarily. *October.* Belding Silk Mills shut down partially owing to accident to boiler.—Williams Manufacturing Co., baskets, shut down entire month.—Handle factory operated by Holmes & Damon destroyed by fire; rebuilt in November. *November.* Belding Bros. & Co. ran on short time.—Northampton Emery Wheel Co. started up.—Williams Manufacturing Co. resumed operations.—A. M. Bates, carriages, died, aged 65 years.—Northampton Paper Box Co. incorporated; capital stock \$25,000. *December.* Nonotuck Silk Co. started up on short time.

**North Andover.** In January, Sutton Mills made addition to plant. *February.* J. C. Brown & Co.'s hair curling factory destroyed by fire; to be rebuilt; main building to be 107 x 20 feet, two stories; other structure to be 80 x 30 feet. *May.* North Andover Mills added new looms. *July.* Sutton Mills added new machinery.—Davis & Furber Machine Co. discharged machinists owing to dull trade. *August.* Sagehomme & Byers, woollens, ran four days a week.—Shut downs for month: Moses T. Stevens & Sons and Sutton Mills; started up in September. *September.* Sagehomme & Byers, woollens, shut down for two weeks. *November.* North Andover Mills reduced wages.—Davis & Furber Machine Co. ran on short time.

**North Attleborough.** In April, Co-operative Manufacturing Jewelers dissolved and reorganized; business continued under same name.—Riley & Grant dissolved; business continued by A. H. Riley. *July.* Frank M. Whiting & Co. added new boilers to factory. *October.* H. H. Curtis & Co., jewelry, resumed operations on full time.

**Northborough.** In June, E. W. Chapin Co., woollens, shut down indefinitely.—Firm of Milo Hildreth & Co. dissolved owing to death of both partners; machinery, tools, and fixtures sold at public auction in October. *August.* Following shutdowns on account of dull trade: W. M. Farwell & Co., combs; Masso Bros., musical merchandise; Whitaker & Proctor, buttons; and D. F. Wood, satinetts. *October.* E. W. Chapin Co. started up on short time with reduced force. *November.* D. F. Wood's woollen mill shut down. *December.* E. W. Chapin Co. shut down owing to dull trade.

**Northbridge.** In January, Whitin Machine Works ran nights.—Foundation for addition to Paul Whitin Manufacturing Co.'s cotton mill laid; building to be of brick, 120 x 90 feet, four stories. *February.* Paul Whitin Manufacturing Co. added new and improved machinery. *April.* Addition, 24 x 24 feet, one story, made to Linwood Mill and new machinery added. *June.* Wm. H. Whitin, cottons, died, aged 52 years.—Grist mill started by Geo. P. Tuttle. *August.* After brief shutdown, Whitinsville Cotton Mill, Linwood Mill, and Paul Whitin Manufacturing Co. resumed operations.—Whitinsville Spinning Ring Co. added new machinery and increased capacity. *October.* Repairs made about Whitin Machine Works.—Paul Whitin Manufacturing Co. increased capital stock \$50,000.—Linwood Mill and Whitinsville Cotton Mill started up on full time.—Woodworking department of Whitin Machine Works shut down two days a week. *November.* Improvements made about dam at Whitin Machine Works and plant started up on full time. *December.* Whitin Machine Co. reduced wages.

**North Brookfield.** In March, Thos. D. Brooks, shoes, died, aged 82 years. *April.* E. & A. H. Batcheller Co., shoes, ran overtime. *June.* E. & A. H. Batcheller Co. shut down for one week. *July.* E. & A. H. Batcheller Co. closed every Monday and Saturday. *September.* Standard Manufacturing Co. shut down owing to dull trade.—E. & A. H. Batcheller Co. resumed operations on short time.—H. H. Brown & Co.'s factory closed on account of accident to machinery.

**Northfield.** In May, Henry W. Webster, miller, died; business sold to Green & Severance. *June.* Weatherhead & Darling, shingles, started up.

**North Reading.** In May, Simonds' mill and lumber yard destroyed by fire.

**Norwell.** In May, work begun on basement of Howard & Herbert Plympton's book bindery.—Chandler, Gay, & Co.'s factory, 125 x 50 feet, for manufacture of oil-cloth completed. *July.* Strike occurred among Chas. Grose & Sons' stitchers.

**Norwood.** In February, Norwood Manufacturing Co.'s kindling wood factory damaged by fire. *August.* Tanneries of Lyman Smith's Sons Co. and Winslow Bros. shut down on account of dull trade. — Town raised \$15,000 to secure location of a manufacturing concern to employ 250 hands.

**Orange.** In July, Rodney Hunt Machine Co. shut down to put in new boilers and make other improvements. — New Home Sewing Machine Co. began enlargement of plant. *August.* Rodney Hunt Machine Co. ran overtime. — New Home Sewing Machine Co. increased output. *September.* Orange Furniture Co. shut down two weeks for repairs. — Chase Turbine Manufacturing Co. ran but eight hours per day. — J. B. Reynolds, shoes, ran on short time. — *November.* Rodney Hunt Machine Co. made improvements in its fire-extinguishing system. — Work begun on iron building for New Home Sewing Machine Co.

**Oxford.** In January, John Chase & Sons, woollens, started up on full time. *February.* Ackworth Cotton Mills sold at auction. *June.* Fred Thayer & Co. sold satinnet mills to Newton Darling of Leicester. *July.* Thayer Woollen Co. incorporated; capital stock \$25,000. — Fred Thayer & Co. began erection of shoddy mill, 32 x 42 feet. *August.* Chaffee Bros. began erection of new boiler and engine house at box factory. *December.* Thayer Woollen Co. reduced wages.

**Palmer.** In January, foundation laid for electric light station; to be of wood and brick, 120 x 45 feet, two stories. — Ambrose Reynolds of South Coventry, Conn., rented portion of Palmer Wire Manufacturing Co.'s plant for manufacture of wool extracts. *April.* Alonzo V. Blanchard, scythes, died, aged 87 years. — Strikes for month: Thorndike Co. (weavers) and Otis Co. (spinners). *June.* Large separator placed in C. E. Grosvenor's shoddy mill. — Rogers-Osgood Hat Co. incorporated; capital stock \$20,000. *July.* Ground broken for box shop for Rogers-Osgood Hat Co., who will remove from Barre. — Shutdowns for month on account of dull trade: Palmer Cotton Mill, Boston Duck Co., Thorndike Co., and Palmer Carpet Co. (for balance of year). *August.* Thorndike Co. reduced persons employed from 555 in July to 34 in August. — Otis Co. reduced persons employed from 701 in July to 53 in August. — C. E. Grosvenor's shoddy mill shut down temporarily. — Boston Duck Co. resumed operations with reduced force. *September.* Thorndike Co. resumed operations on half time, reduced wages, and with 131 employés. — New boiler set up in Rogers-Osgood Hat Co.'s factory. — Palmer Foundry resumed operations after brief shutdown. — Holden & Fuller, woollen goods, shut down. *October.* Palmer Cotton Mill started up with half its looms in operation. — Thorndike Co. resumed operations with full complement of employés. — Holden & Fuller resumed operations. *November.* Thorndike Co. increased running time. — Boston Duck Co. started on full time. — Napping room of Boston Duck Co. damaged by fire. *December.* Holden & Fuller made reduction in wages. — Otis Co. added new machinery.

**Peabody.** In January, new bark mill put into tannery of Geo. H. Poor Leather Co. — Foundation laid for addition to morocco factory of J. B. Thomas; to be of wood, 150 x 40 feet, five stories. — New tower for ventilating purposes at Standard Thermometer Works completed. — Chas. Phillips bought leather factory recently occupied by Leonard Pierce. — Poor & Littlefield improved office facilities at factory. — New partner admitted to leather firm of W. P. Clark & Co. *February.* Upton Tannery leased to Bay State Belting Co. with option of buying at end of three years. — C. W. Perkins started up the Poor Tannery. *March.* Glassing machine in W. P. Clark & Co.'s factory burst. — Newman Perkins & Son ran fancy leather department nights; also added two new wheels for dyeing leather. *April.* J. B. Thomas purchased tan yard and currying shop of A. N. Jacobs. *May.* Armstrong Leather Co. contracted for new building, 100 x 45 feet, two stories. *June.* Walton & Ferrin, morocco, dissolved; business continued by Geo. H. Walton. *July.* Winchester & Blaney buildings leased to H. W. Moore, morocco manufacturer. — Henry C. Torr, tanner, died, aged 62 years. — Pemberton Bros., sheepskin, began addition of two stories to factory. — J. H. Crehore & Co. established to manufacture split leather, inner soling, and spring heels. — Thos. Sherry, taps, shut down for two months. *August.* A. B. Clark's new morocco factory completed; main building 205 x 117 feet, six stories above basement. — Phillips & Shea, morocco, leased S. A. Southwick's shop. — Work of excavating begun for addition to P. R. Gill's tannery; to be of brick and wood, 30 x 150 feet, three and one-half stories. — W. P. Clark & Co. resumed operations after shutdown on account of dull trade, and Standard Thermometer Works after two weeks' vacation. *September.* Danvers Bleachery & Dye Works resumed operations after brief shutdown. — Geo. H. Poor, tanner, died, aged 49 years. *November.* New-



man Perkins & Son shut down. *December.* Standard Thermometer Co. changed from private firm to corporation; capital stock \$125,000. — Eagan & Kelly dissolved; business continued by Edward Eagan & Sons.

**Pepperell.** In March, Nissitissit Mills changed from leather-board to asbestos paper and mill board. *April.* Leighton Bros.' shoe factory and Fairchild Paper Co.'s lower mill shut down. *August.* Fairchild Paper Co. equipped plant with steam fire pumps. — Leighton Bros. shut down; resumed operations in September. *October.* Burnett Paint Co. incorporated; capital stock \$5,000. *November.* John W. Pierce's grain mill sold to G. A. Jennison. *December.* Champion Card and Paper Co. started up. — J. G. Boutelle Co. incorporated; capital stock \$5,000.

**PITTSFIELD.** In January, A. H. Rice & Co. bought plant of Barnes Braiding Co. of Paterson, N. J.; work begun on wooden structure, 60 x 30 feet, two stories, to accommodate purchased machinery. — Cheshire Shoe Manufacturing Co. ran overtime. — Twenty-five new looms added to Pomeroy Mill. — Machinery set up in W. E. Tillotson's new knitting mill. — Gale Brothers, carriages, dissolved; A. D. Gale continued. — Pontoosuc Woollen Manufacturing Co. added ten new looms. — Pomeroy Woollen Co. incorporated, succeeding private firm of Theo. L. Pomeroy; capital stock \$75,000. — Two new cards added to Taconic Mills. — W. H. Teeling & Co. changed from private firm to corporation (Teeling Baking Co.); capital stock \$20,000. — New machinery added to A. H. Rice & Co.'s silk mill. — D. M. Collins & Co.'s knit goods plant removed to new Tillotson Mill. *February.* Pittsfield Shoe Co. completed sale of plant to Robbins & Kellogg Co. — Stanley Electric Manufacturing Co. increased capital stock \$50,000. *March.* Devanney & Foote, builders, succeeded by Dodge & Devanney. — Wilson & Horton, woollen goods, leased upper Barkerville mill which had been shut down for three years. — Pomeroy Woollen Co. put in three new fans and new extractor. — Strike occurred among employes of A. H. Rice & Co. *April.* Contract awarded for addition to Robbins & Kellogg shoe factory; to be 25 x 60 feet, four stories. — Pomeroy Woollen Co. ran card and spinning room nights. — E. D. Jones Sons & Co. incorporated to manufacture paper mill machinery; capital stock \$6,000. *May.* Excavation begun for new finishing room, 35 x 60 feet, at Taconic Mills. — Ground broken for new dyehouse at Peck Manufacturing Co.'s mill. *June.* Stockholders of Stanley Electric Manufacturing Co. voted to increase capital stock to \$200,000. — Tillotson's worsted mill ran nights. — Insulating department of Stanley Electric Manufacturing Co. destroyed by fire; to be rebuilt. *July.* Pontoosuc Woollen Co. put automatic sprinklers in its mills. — Pittsfield Manufacturing Co. and dyehouse of Bel Air Manufacturing Co. shut down for repairs. *August.* S. N. & C. Russell Manufacturing Co. shut down for entire month on account of dull trade. — Cheshire Shoe Manufacturing Co. and Pontoosuc Woollen Co. resumed operations. — P. C. Langdon & Co.'s new renovating factory completed. — R. A. Simyer & Co. leased rooms for manufacture of woollen and cotton specialties. — Wilson & Horton and D. M. Collins & Co. shut down indefinitely. — A. H. Rice & Co.'s silk mill ran on two-thirds time. — Planing mill and lumber yard of Charles E. Merrill damaged by fire. *September.* Peck Manufacturing Co.'s upper mill shut down for two weeks to move machinery. — Plant of Russell & Clark Co. sold to Hurlbut Paper Manufacturing Co. of South Lee, for manufacture of stationery. — Barkerville Woollen Mill resumed operations after three weeks' shutdown. *October.* Work resumed at Wm. E. Tillotson's woollen mill. — Directors of Stanley Electric Manufacturing Co. voted to increase capital stock to \$200,000. — Owen Coogan & Sons, tanners and curriers, shut down. — Cheshire Shoe Manufacturing Co. ran works three days a week. — Property of Russell & Jones Clock Co. transferred to A. W. Eaton, paper manufacturer. *November.* Tillotson Mills ran fifty hours per week. — Russell Manufacturing Co. ran nights. — New dye tub placed in Wilson & Horton's mill. *December.* Reduction made in wages in S. N. & C. Russell Manufacturing Co.'s mill — Barkerville Woollen Mill shut down. — Wilson & Horton reduced wages. — W. E. Tillotson's woollen mill slightly damaged by fire.

**Plymouth.** In January, Atlantic Covering Co. formed. — Plymouth Electric Light Co. increased capital stock \$50,000. — Standish Mills, which had been idle for four years, sold, and in May the Standish Worsted Co. incorporated to operate the plant, with a capital stock of \$20,000. *April.* Travis Bros.' Shoe Co. incorporated; capital stock \$7,000. *August.* Addition begun to Bradford Joint Co.'s mill. *September.* Edes Manufacturing Co. incorporated, replacing private establishment of Edwin L. Edes; capital stock \$25,000. *November.* Plymouth Cordage Co. ran nights.

**Plympton.** In July, G. W. Randall, shoes, shut down for balance of year.

**Provincetown.** In June, Provincetown Cold Storage Co. organized; capital stock \$15,000.

**QUINCY.** In February, W. H. Doble Co. incorporated; capital stock \$20,000. — New planer set up in M. H. Ripley's tool manufactory. — Tubular Rivet Co. and Lacing Stud Co. discontinued as separate establishments and continued in business as The Tubular Rivet & Stud Co.; capital stock \$20,000. *March.* Strike occurred among employes of J. E. Drake & Co., shoes. *May.* Quincy Quarry Co. organized; capital stock \$175,000. — Foundation of three factory buildings for Tubular Rivet & Stud Co. started. *August.* Graham & Co., shoes, resumed operations after shutdown of two weeks on account of dull trade. *October.* Allen & Walker dissolved; succeeded by Aberdeen Granite Works. *December.* Fegan & Ballou's polishing mill and engine house destroyed by fire.

**Randolph.** In March, Theo. Purcell and James Dowd formed partnership for manufacture of shoes. — Chas. Doughty's harness factory collapsed. *August.* Pierce, Small, & Co., shoes, dissolved.

**Raynham.** In July, salad factory of Chase Bros. destroyed by fire.

**Reading.** In January, Emerson Rubber Mills shut down. — Beattie Zinc Works Co. formed to manufacture battery zinc, etc.; capital stock \$10,000. *March.* George H. Ryder & Co., church organs, shut down permanently. *October.* Emerson Rubber Mills shut down for balance of year.

**Richmond.** In February, one of the charcoal kilns of Richmond Iron Works destroyed by fire. — Foundation of new phosphate works laid.

**Rockland.** In January, Wright & Richards, shoes, moved into new addition to factory. — J. S. Turner, boots and shoes, made additions and improvements to factory. — Dean, Chase, & Co. absorbed by Hub Gore Makers of Brockton. *May.* French & Hall, shoes, dissolved; succeeded by French, Schriner, & Urner. — Strike occurred among lasters in Chipman, Calley, & Co.'s factory. *July.* Geo. W. Hall, formerly of French & Hall, began erection of shoe factory, 136 x 34 feet, two stories. *October.* E. T. Harwell & Co., shoes, sold out to Pratt Shoe Co. *November.* G. W. Hall began manufacture of men's shoes. *December.* J. S. Turner, shoes, died, aged 52 years. — Factory of Rockland Welt Co. damaged by fire. — J. S. Turner's shoe factory, which had been closed owing to death of Mr. Turner, started up on full time.

**Rockport.** In May, work begun on new tool factory of C. C. Fears. *July.* Rockport Electric Street Railway Co. incorporated; capital stock \$50,000.

**Rowley.** In March, S. A. Boynton, heels, shut down. *July.* F. L. Burke changed to corporation known as Burke Heel Co.; capital stock \$15,000.

**Royalston.** In February, Geo. Whitney decided to convert chair factory into woollen mill. — Mills ran on short time owing to low water. *July.* Geo. W. Whitney's woollen mill damaged by fire. — *September.* Operations resumed at Whitney Woollen Mill after brief shutdown for repairs. *December.* Geo. Whitney removed plant to Enfield, N. H.

**SALEM.** In January, Electric Brake Co. organized. — Naumkeag Steam Cotton Co. shut down temporarily owing to accident to engine. — Morocco factory of John J. Cunney destroyed by fire. — Lynn Glue Co. moved here from Lynn and changed name to Atlantic Glue Co. *February.* J. W. Reynolds & Co., shoes, dissolved; business continued by Towle & Daley. — Adamanta Manufacturing Co. dissolved by Supreme Judicial Court. — Charles Harrington & Co., leather, dissolved. — Chas. McCarthy, retired shoe manufacturer, died, aged 99 years. *March.* Daley & Hayes, shoes, dissolved. — Flint & Co., shoes, sold to Flint Bros. — Strike occurred among trimmers of Salem Electric Light Co. — Salem Press Publishing and Printing Co. increased capital stock \$15,600. *April.* Cass Bros., morocco, removed here from Peabody. — Dennis Brady, shoes, shut down for repairs and introduction of electric motor. — Foundation laid for Devlin Bros.' shoe factory; to be of brick, 40 x 85 feet, five stories. — *May.* James A. Lord, leather, out of business; no successor. — Fires for month: Poor Bros., tanners; Reed & Vaughan, leather measuring machines; Atlantic Glue Co.; and Salem Brass Foundry. *June.* Donovan & Hill, shoes, dissolved; Patrick J. Donovan continued. — A. G. Frothingham, shoes, sold trimming business to J. H. Ellis & Co. — No. 2 mill of Naumkeag Steam Cotton Co. shut down owing to accident to machinery. — James Dugan, tanner, died, aged 56 years. — Twenty-five men dropped from pay roll of Mathew Robson's currying shop owing to dull trade. — Salem Novelty Co. organized to manufacture toys and small articles. *August.*

Naumkeag Steam Cotton Mills shut down owing to dull trade. — Lawrence Shaving Machine Co. incorporated; capital stock \$100,000. — G. F. Putnam, tanner and currier, shut down for two weeks. — John Powers, shoe stock, discharged all employes. — A. G. Frothingham, boots and shoes, incorporated as Boston Manufacturing Co. *September.* National Fibre Board Co. closed Salem factory and moved plant to Morrisville, Vt. — Work begun on Poor Bros.' new tannery; plant to consist of one two-story building, 125 x 60 feet; one one-story building, 76 x 93; another, 25 x 100 feet; and brick boiler and engine house, 55 x 80 feet. — Naumkeag Steam Cotton Mills resumed operations with reduction in wages. — Edward W. Pierce of J. W. Woodbury & Co., shoes, died, aged 37 years. — Fires: Patrick Creedon & Co., curriers, and Thos. Shea & Co., shoe stiffenings. *October.* Winslow & Rogers' shoe factory sold at auction to Nelson & Pearl. — Dugan's tannery started up on full time. — Nevins Bagging Co.'s plant sold to Lynch Bros. of Beverly. *December.* New engine placed in Naumkeag Steam Cotton Mills.

**Saugus.** In January, strike occurred among employes of Coates Bros. *March.* Pranker Manufacturing Co. added new looms. *September.* F. Scott & Son shut down for three months, resuming operations in December.

**Scituate.** In April, C. N. Drollet leased shoe factory of late G. W. Bailey with the intention of manufacturing shoes.

**Shelburne.** In January, Lamson & Goodnow Manufacturing Co. shut down on account of low water. *February.* J. C. & D. W. Temple, marble and granite, started branch in Greenfield. *May.* Work begun on factory for Jacob Foster & Sons, shoe pegs; main building to be of wood, 36 x 80 feet, two stories, and storehouse, 30 x 100 feet, one story; completed and occupied in November. — New England Cutlery Co. removed to Springfield and reorganized. *July.* Lamson & Goodnow Manufacturing Co. resumed operations after summer vacation. *September.* Mayhew Silk Mill started up on full time. *October.* Mayhew Silk Mill shut down temporarily.

**Shirley.** In January, new plant of Shirley Woollen Co. completed; main building, 128 x 45 feet, two stories; chemical room, 40 x 40 feet, one story; dyehouse, 30 x 30 feet. *April.* C. A. Edgerton Manufacturing Co. decided to move to Fitchburg. *August.* Samson Cordage Works closed on account of dull trade; resumed operations in October and increased capital stock \$40,000.

**Shrewsbury.** In November, C. O. Green & Co. added new splitting machine to plant.

**Somerset.** In January, Somerset Stove Foundry Co. shut down for inventory and repairs; resumed operations in February. *May.* Plate mill of Mt. Hope Iron Co. resumed operations. — Wilson Lace Clasp Co. added new machinery. *August.* New engine set up in Somerset & Johnsonburg Manufacturing Co.'s plant. — Creosote Works and Somerset Stove Foundry resumed operations after shutdown. *September.* Machinery set up in Hoyt, Poole, & Co.'s shoe button factory. — Upper nail mill of Mt. Hope Iron Works resumed operations. *November.* Somerset & Johnsonburg Manufacturing Co. shut down for one week.

**SOMERVILLE.** In April, Williams Table & Lumber Co. incorporated; capital stock \$35,000. *May.* Boston Magnetic Supply & Manufacturing Co. incorporated under Maine laws; capital stock \$50,000. *July.* Work begun on addition to Crosby Steam Gauge and Valve Co.'s works; to be of brick, 43 x 53 feet, three stories. *August.* North Packing & Provision Co. reduced wages. *September.* F. D. Weld, ladders, sold to McDormand, Warner, & Co. *October.* Edwards' naphtha and kerosene works and Walker's oil works destroyed by fire. *November.* Locke's foundry damaged by fire.

**Southborough.** In December, Cordaville Woollen Mills shut down.

**Southbridge.** In February, Blanchard & Richards formed to manufacture improvements for eye glasses. — Paige, Carpenter, Colburn Co., shoes, incorporated; capital stock \$30,000. *April.* Hamilton Woollen Co. started on Summer time schedule. — Central Mills Co. built new engine house. *June.* Southbridge Printing Co. ran nights. — P. H. Carpenter Co. incorporated; capital stock \$5,000. *July.* Hamilton Woollen Co. put in two new water wheels. *August.* Cassimere department of Hamilton Woollen Co. shut down for two weeks; other departments ran but three days per week. — Southbridge Gas & Electric Co. increased capital stock \$10,000. *September.* Southbridge Printing Co. shut down for four weeks for repairs.



— Repairs made on engine at Litchfield Shuttle Works. *October.* Hamilton Woollen Co.'s mills shut down indefinitely. — Low water caused shutdown of Central Mills for few days.

**South Hadley.** In January, improvements completed at Hampshire Paper Co.'s mill and work resumed in full. *February.* Glasgow Co.'s gingham mill damaged by fire. *March.* Glasgow Co. advanced wages of weavers; increase on gingham four cents and on coat linings nine cents. — New flumes placed in Carew Manufacturing Co.'s mill and addition built to machine shop. *May.* Office of Glasgow Co.'s plant converted into cloth room. *July.* Hampshire Paper Co. reduced persons employed from 118 in June to 10 in July. — Carew Paper Mill closed indefinitely. *September.* Repairs made in sizing department of Hampshire Paper Mill. — Glasgow Co. reduced persons employed from 234 in August to 25 in September. *October.* Manufacturing part of Hampshire and Carew Paper Mills shut down for few days. *November.* Dyehouse of Glasgow Mill resumed operations; shut down during December.

**Spencer.** In January, J. E. Fenner gave up two plants in Middlefield and organized company in this town, to be known as Spencer Knitting Co. *March.* E. E. Stone & Co. made addition to box factory by erection of new shop for packing boxes. *April.* G. P. Ladd's lower mill repaired and operations resumed. — Fires for month: No. 1 mill of Central Wire Co. and mill No. 6 of Spencer Wire Co. *May.* Spencer Woollen Co. ceased manufacturing. — Geo. P. Ladd, cassimeres, shut down mills Nos. 1 and 2 and Westville Mill. *June.* Erection of addition to Isaac Prouty & Co.'s shoe shop begun; to be of wood, 50 x 200 feet, five stories. *August.* Isaac Prouty & Co., shoes, shut down at four o'clock Saturdays during July and August owing to dull trade. — Bacon, Young, & Co., shoes, and W. A. Barr & Son, heels, ran on short time. *September.* No. 1 woollen mill, formerly run by G. P. Ladd, started up by Green & Shaw. — Fires for month: Bacon, Young, & Co., boots and shoes; E. E. Stone & Co., planing mill; J. P. Avery, machinists' work; Eldridge Leather Dressing Factory; W. T. Clark & Sons, machine shop; W. A. Barr & Son, heels; and M. J. Boyes, harnesses. *October.* E. E. Stone & Co. began rebuilding planing mill; to be of brick, 90 x 60 x 116 feet, two stories. — W. A. Barr & Son started up new heel manufactory. — W. T. Clark & Sons resumed business in new shop. — Works of Spencer Gas Co. damaged by fire. *November.* Cutting department of I. Prouty & Co.'s shoe shop resumed operations. — Bacon, Young, & Co., boots and shoes, dissolved; continued by J. E. Bacon & Co. *December.* Isaac Prouty & Co. shut down entire month. — E. E. Stone & Co.'s plant lighted by new electric system. — Spencer Gas Co. damaged by fire.

**SPRINGFIELD.** In January, J. H. Rogers Carriage Co. incorporated; capital stock \$25,000. — Work begun on foundation for new refrigerator building for Nelson Morris & Co.; to be of brick, two stories. — Quinell & Cushing, mantels, dissolved; business continued by W. L. Quinell. — Horace Smith, formerly of Smith & Wesson, revolvers, died, aged 85 years. — Springfield Foundry Co.'s storehouse destroyed by fire. *February.* Standard Button Co. incorporated; capital stock \$10,000. — Springfield Brass Co. increased capital stock \$20,000. — Standard Thread Co. of Newark, N. J., removed to this city. — Chadbourne & Moore of Boston purchased machinery of Springfield Narrow Fabric Co. *March.* Cutler & West, boxes, dissolved; business continued by Mr. West under old firm name. *April.* Milton Bradley Co. increased capital stock \$16,000. — Work begun on new machine shop for Chapman Valve Co.; to be of brick, 50 x 220 feet, one story. — Holyoke Card & Paper Co. began erection of new storehouse, 65 x 70 feet. — Springfield Collar Co. dissolved by Supreme Judicial Court. *May.* New England Cutlery Co. removed from Shelburne to this city and reorganized; new firm known as Rush Cutlery Co. — Springfield Drop Forging Co. incorporated; capital stock \$15,000. — Estate of E. Trask, castings, closed out business; no successor. — Brouillard & Jones, machinists, dissolved; business continued by R. Crittenden. — Abram Whitcomb, cigars, died, aged 37 years. — Granite cutters employed by Hudson & Chester Granite Co. and J. E. & A. L. Pennock struck work. *June.* Rafter-Ripley Co. incorporated; capital stock \$15,000. — Springfield Knitting Co. increased capital stock \$18,000. — Machinery, etc., of Smith & Lesquereux purchased by West Winsted Optical Co. and removed to West Winsted, Conn.; Springfield plant occupied later in year by Smith & Wesson. *July.* Springfield Coil Boiler Co. incorporated; capital stock \$10,000. — Day & Johnson Co., lumber, incorporated; capital stock \$24,000. — Springfield Brewing Co. voted to reorganize. — Manufacture of new Krag-Jorgensen army rifle begun at National Armory. — New machinery placed in Conn. River R.R. shops. — Smith & Wesson closed factory entire month of July, resuming operations in August with one-third less employes. — Empire Light Co. established to manufacture an invention for filling kerosene oil lamps by gravity from a tank; capital stock \$100,000. — Building occupied by Crescent Manufacturing Co. and Springfield Brass Co. damaged by fire. *August.* Textile Manufacturing Co. of Westfield, coffin trimmings, bought out Crescent

Manufacturing Co. — E. S. Stacey began erection of new machine shop. *September.* Indian Orchard Co. reduced number of employes. — Wason Manufacturing Co. resumed operations after brief shutdown. — Tucker & Cook Manufacturing Co. moved into new quarters. *October.* Grant-Sawyer Confectionery Co. incorporated; capital stock \$5,000. *November.* A. C. Dutton Lumber Co. incorporated; capital stock \$35,000. — Willey Co. incorporated; capital stock \$10,000. — U. S. Compound Oxygen Co. decreased capital stock \$15,000 and increased it \$5,000. — Fire destroyed photograph gallery of Geo. Van Norman and cigar factory of M. H. Barnet. *December.* Warwick Cycle Manufacturing Co. incorporated; capital stock \$200,000. — New machinery added to Metallic Drawing Roll Co. — James Gibbins and John Swaine purchased plant of Springfield Iron Works. — Wason Manufacturing Co. shut down indefinitely. — P. J. O'Connell & Co. dissolved; no successor. — Arthur I. Bemis, hardware and tools, died, aged 63 years. — Rush Cutlery Works damaged by explosion. — Springfield Knitting Co. destroyed by fire.

**Sterling.** In March, new machine for stamping out flower pots placed in Waushacum Pottery. *September.* Sterling Basket Co. shut down balance of year on account of dull trade. *November.* E. H. Brigham & Co., baskets, sold to B. W. Potter. *December.* Sterling Emery Wheel Co. manufactured no goods during past year.

**Stoneham.** In April, J. M. Noyes, shoes, leased factory in Lynn for term of years and moved business to that city. *June.* New machinery added to tannery of Wm. Tidd & Co. — G. H. Eaton & Co. purchased Jewett saw mill property for manufacture of machinery; destroyed by fire in July.

**Sturbridge.** In July, concrete floor put in mill No. 1 of Fiskdale Co. *October.* Fiskdale Mills started up in all departments with full number of employes.

**Sutton.** In May, D. T. Dudley & Son sold shuttle manufactory to F. A. Chase & Co. of Providence. — Spinning room of Sutton Manufacturing Co.'s mill shut down owing to high water. *June.* Part of Sutton Manufacturing Co.'s mills shut down for few days on account of bursting of flume. *July.* Mills of Sutton Manufacturing Co. closed indefinitely. *August.* Manchaug Cotton Mill shut down for one week. *September.* Shop of D. T. Dudley & Son wired for electric lighting. — Wages reduced in Manchaug Mills. *October.* Sutton Woollen Co. started up after shutdown of five weeks with reduction in wages. *November.* Sutton Manufacturing Co. started up with reduction in wages; solid granite dam constructed during shutdown.

**TAUNTON.** In January, Taunton Iron Works started up after four weeks' shutdown. — S. A. Wilde Manufacturing Co., tinware, dissolved; business continued by Deane Manufacturing Co. — Pierce Hardware Co. incorporated; capital stock \$25,000. *February.* Wire drawing department of Taunton Copper Manufacturing Co. ran nights. — Repairs at O. G. Thomas' foundry completed and operations resumed. — Main shaft in Taunton Locomotive Works repaired and operations resumed. — Changes in machinery made at Cohannet Mills. *April.* Operations suspended at Cobb Stove and Machine Co.'s works. — New looms set up in Whittenton Manufacturing Co.'s mills. — Taunton Oil-cloth Co. incorporated under title of Standard Oil-cloth Co.; capital stock \$50,000. — New boiler set up in Taunton Locomotive Works. — Taunton Dye Works and Bleachery Co. organized; capital stock \$21,000. *May.* Adjustable Stove Pipe Co. began operations. — Addition begun to Whittenton Mill and four new blanket looms set up. — Old shovel factory converted into oil-cloth factory for Standard Oil-cloth Co. — Presbrey Stove Lining Co. added new boiler. *June.* John F. McGrath began manufacture of automatic ratchet drill. — Three-story addition to Peck & White's carriage factory completed. *July.* Foundation started for office building for Nemasket Mills; red brick with granite trimmings, 55 x 47 feet, one story. — Nemasket Mills increased capital stock \$100,000. — Phoenix Crucible Works resumed operations. — New engine set up in Trefethen's Brass Foundry. — Universal Loom Co. took on new hands. — New England Stove Co. resumed operations. — Taunton Iron Works resumed operations after shutdown for repairs and inventory. — Albert Field branch of Atlas Tack Co. closed for one week. — Nemasket Yarn Mills and Cohannet Mill No. 3 ran on short time and with reduced number of employes. — Mason Machine Works closed Saturdays and Mondays. — Reed & Barton Corporation ran four days a week. *August.* Spinning department of Canoe River Mills shut down. — Taunton Crucible Co. ran on half time from first of August to end of year. — New Process Twist Drill Co. resumed operations after week's idleness. — Nemasket Mills shut down for two weeks. *September.* Weir Stove Co. shut down for few days. — Work begun on addition to White, Warner, & Co.'s plant; to be used as moulding mill. — Whittenton Mills shut



down entire month. *October.* New England Co-operative Foundry Co. made repairs about plant. — Mason Machine Works began running eight hours per day. — New engine set up in Cohannet Mill No. 3. — Taunton Iron Works resumed operations after four months' shut-down. — Taunton Nickel Plating Co. ran but four days a week. — Cobb Stove and Machine Co.'s foundry shut down. — Engine room of Canoe River Yarn Mills damaged by fire. *November.* Mason Machine Co. finished office buildings. *December.* Weir Stove Co. shut down one week for stock taking; incorporated 28th with capital stock of \$120,000. — *Taunton Herald* Co. incorporated; capital stock \$5,000.

**Templeton.** In March, Templeton Mills obliged to run nights to meet demand for yarns. *October.* J. M. Greenwood & Co. equipped factory for steam heating. — Paint shop connected with C. N. Johnson's factory destroyed by fire. *December.* T. T. Greenwood & Sons' furniture factory damaged by fire.

**Tewksbury.** In September, Atherton Machine Co. shut down. *December.* Atherton Machine Co. started up in part.

**Topsfield.** In December, Chas. Herrick, shoes, died, aged 81 years.

**Townsend.** In April, Spaulding Bros. changed from private firm to corporation known as 'The Spaulding Bros. Co.; capital stock \$30,000.

**Truro.** In May, North Truro Cold Storage Co. incorporated; capital stock \$15,000.

**Tyngsborough.** In June, J. G. Upton, boxes, died.

**Upton.** In July, Benson & Nelson, straw goods, closed factory for two months, retaining pattern makers only. *October.* Addition to Wm. Knowlton & Son's straw goods factory completed; 100 x 40 feet, four stories. — Upton Manufacturing Co., boxes, added new machinery. *December.* Benson & Nelson's factory destroyed by fire.

**Uxbridge.** In February, new company organized for building electric cars; capital stock \$100,000. — Jos. McKachnie, proprietor of Happy Hollow Mill, discontinued manufacturing. *March.* Break in machinery at Scott & Wheelock's mill adjusted and operations resumed. *April.* John H. Lyon & Co. of New York City purchased all personal property of Happy Hollow Mill. — Moses Taft, woollens, died, aged 81 years. — Jacob Taft, satinets, died, aged 69 years. — Stockhouse of D. Morey Lee destroyed by fire. *May.* Carding and spinning rooms at Calumet & Heckla Mills shut down for short time to put in new wheel and make other improvements; resumed operations in June. — Strike occurred among quarrymen employed by Ingerson & Nash. *July.* E. S. Farnum erected storehouse near grist mill. — Picker room of Capron Woollen Mill slightly damaged by fire. *August.* Calumet & Heckla Woollen Mills shut down indefinitely and Capron Woollen Mill for balance of year. — Scott & Wheelock's mill resumed operations after three weeks' shutdown. *September.* Chas. C. Capron shut down for balance of year. *October.* Calumet & Heckla Mills resumed operations. *December.* Richard Sayles & Co.'s Rivulet mill started up after shutdown of four months. — Scott & Wheelock mills shut down indefinitely.

**Wakefield.** In February, strike occurred among winders in Wakefield Rattan Co. *May.* Smith & Anthony Stove Co. changed to Smith & Anthony Co. and increased capital stock \$150,000. — Strike occurred among moulders in Smith & Anthony Co.'s foundry. *July.* Wakefield Rattan Co. decided not to run Saturday afternoons during summer. *December.* Wakefield Rattan Co.'s factory and Smith & Anthony Co.'s foundry shut down indefinitely. — Wakefield Rattan Co. purchased Gibbs Chair Co. at Kankakee, Ill.

**Wales.** In August, Berkeley Woollen Mills shut down for three months.

**Walpole.** In January, work begun on addition to Walpole Emery Mills. *July.* Union Mills added new machinery. — Lewis Batting Mill damaged by fire. *September.* Walpole Dye & Chemical Co., which had been running on short time, started up again in full. *October.* Walpole Woollen Mills dissolved by Supreme Judicial Court. *November.* W. I. Lewis' machine shop resumed operations. *December.* Stockhouse of F. Barlow's cotton waste mill destroyed by fire.

**WALTHAM.** In January, John Roberts & Son's paper mills shut down indefinitely owing to accident to engine. — Pickling room of Waltham Foundry Co. damaged by fire. — Strike of 300 cutters occurred in Boston Manufacturing Co. *February.* Buildings of J. L. Thompson Manufacturing Co. wired for electric lighting. — Waltham Bleachery and Dye Works, which had been running on short time, resumed operations in full. — Waltham Emery Wheel Co. increased capital stock \$25,000. *March.* Waltham Screw Co. leased additional floor space on account of increased business. — Sidwell & Saben established new bicycle factory. *May.* Addition to Boston Manufacturing Co.'s dyehouse completed. *June.* Perry Bros.' planing mill and three dryhouses of Waltham Lumber Co. destroyed by fire. *July.* United States Watch Co. resumed operations with reduction in wages. — Waltham Electric Clock Co. shut down; started up again in August. *August.* Waltham Emery Wheel Co. resumed operations. — Shutdowns for month: Waltham Dial Co., American Waltham Watch Co., Boston Manufacturing Co., and J. L. Thompson Manufacturing Co. *September.* Boston Manufacturing Co. resumed operations on half time. — Waltham Bleachery and Dye Works shut down. — Boston Manufacturing Co. added new machinery. *October.* Foundation laid for new factory building for Boston Manufacturing Co.; to be of brick, 76 x 41 feet, two stories. — Davis & Farnham Manufacturing Co. discharged 20 employés owing to dull times. — Waltham Screw Co. closed indefinitely. — Boston Manufacturing Co. added new machinery to carding and spinning departments. — New bicycle factory roofed; building of wood, 30 x 75 feet, one story. *November.* Boston Manufacturing Co. ran eight hours per day, five days per week. — Waltham Bleachery and Dye Works ran eight hours per day and reduced wages. — Boston Manufacturing Co. made addition to cloth finishing department. *December.* American Waltham Watch Co. made reduction in wages, and during last week in December posted notice of another cut-down to take effect Jan. 1. — J. L. Thompson Manufacturing Co., buckles, reduced force. — John Roberts & Sons' paper mill resumed operations as a corporation; capital stock \$20,000. — Waltham Bleachery started up with full force.

**Ware.** In February, strike occurred among weavers in Geo. H. Gilbert Manufacturing Co. *April.* Otis Co. decided to shut down Saturday afternoons during summer. *May.* Work begun on John P. Pero's foundry plant. — Geo. H. Gilbert Manufacturing Co. added new looms. *June.* Otis Co. added new and improved machinery. — Brick addition to Geo. H. Gilbert Manufacturing Co.'s mill completed. *August.* Otis Co. reduced persons employed from 1,654 in July to 61 in August. — Chas. A. Stevens & Co., woollens, shut down for repairs. — Geo. H. Gilbert Manufacturing Co. ran three days a week. — Otis Co. made repairs. *September.* Otis Co. started up on half time with reduction in wages and with 239 employés. — Geo. H. Gilbert Manufacturing Co. shut down on account of accident to engine. *October.* Ware Lumber Co. started up box factory on full time. — High roof on part of C. A. Stevens & Co.'s mill removed and new flat roof put on. — Otis Co. and Geo. H. Gilbert Manufacturing Co. started up on full time. *November.* New condenser added to Gilbert Mill. *December.* Geo. H. Gilbert Manufacturing Co. reduced wages.

**Wareham.** In January, Franconia Iron and Steel Works closed; corporation dissolved by order of Supreme Judicial Court; plant leased in May by George F. Blake, Jr. *March.* James C. Ware, iron founder, died. *July.* John V. Morse's saw mill destroyed by fire. *August.* Repairs made at Parker Mills Nail Works. *October.* Parker Mills Nail Works started up after shutdown of six weeks.

**Warren.** In January, Chas. H. Comins fitted up old planing mill with new woodworking machinery. — Work at Warren Cotton Mills delayed by cold weather. *March.* Sayles & Jenks, woollens, purchased land for new reservoir. *April.* Work begun on new Slater engine works; foundry to be of brick, 60 x 250 feet, and machine shop, 50 x 72 feet, one story. *May.* Sayles & Jenks, whose woollen mills were burned in September, 1892, began erection of new buildings: main mill, 230 x 50 feet, four stories; dyehouse, 30 x 110 feet, three stories; and weave mill, 40 x 130 feet, two stories. — Through efforts of Board of Trade, J. H. Blaisdell, woodworking machinery, purchased land and began erection of factory, 150 x 90 feet, one story. *July.* Knowles Steam Pump Works ran five days per week. — A. W. Crossman, tools, died. — Warren Cotton Mills shut down on account of dull trade. — M. K. Whipple, cotton goods, shut down for balance of year. *August.* After one week's shutdown Knowles Steam Pump Works started up with reduction in wages. — Work begun on reservoir to be connected with Sayles & Jenks' new woollen mills. *September.* Warren Cotton Co. decided to permit operatives to occupy tenements, rent free, during shutdown. — Machinery placed in new works of Slater Engine Co. *October.* Repairs made at No. 1 mill of Warren Cotton Co. and new spinning frames added; mills started on full time. *December.* Thos. I. Shuttleworth, manager of Burtworth Carpet Co., died, aged 39 years; persons interested in the property assumed charge, reorganized the company, and incorporated with capital stock of \$6,000.

**Warwick.** In February, C. A. Williams began removal of shingle manufactory from Richmond, N. H., to this place.

**Watertown.** In April, addition made to dyeing department of Ætna Mills. *May.* Ætna Mills shut down temporarily for repairs. *June.* New engine and boiler added to Walker & Pratt Manufacturing Co.'s foundry. *September.* Thos. Dalby Co., underwear, resumed operations. — Foster Manufacturing Co., lead pencil sharpeners, began removal of shop from Boston to this place. — Walker & Pratt Manufacturing Co. resumed operations after two months' shutdown. *October.* Ætna Woollen Mills started up on full time with usual number of employes but with reduction in wages. *November.* E. C. Manufacturing Co. incorporated; capital stock \$20,000. *December.* Union Bag Works shut down.

**Wayland.** In February, Wm. & J. M. Bent, shoes, changed from private firm to corporation to be known as Bent Bros. Co.; capital stock \$70,000. *September.* N. C. Griffin and C. W. Dean, shoes, shut down. — Orlando Ewing began addition, 40 x 20 feet, to factory.

**Webster.** In March, Slater Woollen Co.'s mill destroyed by fire; to be rebuilt. *June.* Slater Woollen Mills ran on short time. *July.* O. C. Burnett's steam saw mill destroyed by fire. — H. N. Slater Manufacturing Co. shut down indefinitely on account of dull trade. — Strike of 200 employes occurred in factory of A. J. Bates & Co., shoes. *August.* A. J. Bates & Co. shut down indefinitely. — Slater Co. began erection of two-story addition to East Village Cambric Mill and new chimney to North Village Mill. *September.* Slater Woollen Co. and H. N. Slater Manufacturing Co. resumed operations. *October.* Wages of employes in Stevens Linen Works reduced. — Strike occurred among lasters in factory of A. J. Bates & Co. *December.* Stevens Linen Co. shut down for two weeks.

**Wellesley.** In February, paint factory of Henry Wood's Sons Co. destroyed by fire. *September.* Richard T. Sullivan, wool extracts, started up after four weeks' shutdown.

**Wendell.** In April, John Putney began erection of new steam saw mill. *May.* Frick Piano Case Co. incorporated; capital stock \$12,000. — Pulp mill of Farley Paper Co. started up. *October.* Machinery set up in Frick Piano Case Factory.

**Westborough.** In April, Hunt Manufacturing Co., bicycle supplies, incorporated; capital stock \$30,000. *July.* National Straw Works shut down. *August.* Foundation of factory for Hunt Manufacturing Co. started; to be of wood, 40 x 104 feet, three stories. *October.* Hunt Manufacturing Co. began operations. — Forrest Forbes purchased interest of D. W. Forbes in Forbes sleigh factory. — National Straw Works dismantled. *December.* Bates' straw factory resumed operations. — Gould & Walker, boots, increased running time to eight hours. — Hunt Manufacturing Co. removed to new building.

**West Bridgewater.** In October, Charles W. Copeland, shoes, died.

**West Boylston.** In January, West Boylston Manufacturing Co. made additions and improvements. *February.* L. M. Harris Manufacturing Co.'s mill refitted with new machinery. *March.* Warren Howe, boxes, died, aged 53 years. *April.* West Boylston Manufacturing Co. shut down owing to accident to dam. *June.* West Boylston Manufacturing Co. added new machinery and increased capacity. *August.* L. M. Harris Manufacturing Co. began erection of addition to No. 1 mill, 49 x 76 feet, two stories. — Shutdowns for month: Clarendon Mills, L. M. Harris Manufacturing Co., S. R. Warfield, and West Boylston Manufacturing Co. — Fires for month: Spinning room of L. M. Harris Manufacturing Co., picker room of F. H. Rice & Co.'s cotton mill, and Warner's saw mill and box factory. *September.* L. M. Harris Manufacturing Co. resumed operations. *November.* Linus M. Harris, president of L. M. Harris Manufacturing Co., died, aged 79 years.

**West Brookfield.** In April, foundation of new corset factory started; to be of wood, 120 x 35 feet, three stories. *August.* McIntosh & Co., boots, ran four days per week.

**Westfield.** In January, Coleman, Warren, & Kenyon began erection of sash and door factory. *February.* Thos. F. McMain, cigars, died. — W. Warren Thread Co. enlarged plant. — Foundation started for new factory, 130 x 40 feet, four stories, for Great River Water Power Co. *March.* Johnson & Son purchased land for erection of new organ factory. — American Whip Co., High Speed Braider Co., Sandford Whip Co., and Massasoit Whip Co. sold



to United States Whip Co. *April*. Crane Bros. completed three-story brick addition in which to manufacture paper canoes and boats. — Factory of A. E. Ensign Cigar Box Co. damaged by fire. *May*. H. B. Smith Co. made improvements and repairs in foundry. *June*. American Casket Co. added new engine. — W. Warren Thread Co. began erection of new storage building. — New boilers placed in H. B. Smith Co.'s foundry. — Quabog Hosiery Co. secured quarters at this place. *July*. Atlantic Whip Co. occupied new factory. — Cascade Power Co. incorporated to erect and maintain dams and mills; capital stock \$100,000. — Peck & Whipple Co. sold to United States Whip Co. — Fogg & Ladd established new machine repair shop. *August*. Foster Machine Co. shut down for repairs. — Directors of United States Whip Co. shut down all its syndicate factories owing to dull trade. — Plant of Crescent Manufacturing Co. sold to Textile Manufacturing Co. — Westfield Heating & Plumbing Co. incorporated; capital stock \$5,000. *October*. Springdale Paper Co. shut down. — H. B. Smith Co. began erection of fire-proof storage building at plant. — Crane Bros. made improvements at mills. *November*. Edwin Hedges, church organ pipes, removed to new factory building, 66 x 36 feet, four stories. — Crane Bros. added new engine. — American Brass & Rivet Co. sold to United States Whip Co. *December*. Westfield Creel Co. incorporated to manufacture creels for use in cotton and woollen mills; capital stock \$100,000. — Steimer & Moore Manufacturing Co.'s factory started up with full force on short time.

**Westford.** In August, Abbott & Co., worsted goods, ran on two-thirds time; increased running time in September.

**Westminster.** In July, repairs made in Artemas Merriam's chair factory.

**West Newbury.** In January, L. F. Morrill & Son's shoe manufactory damaged by explosion. *May*. T. M. Chase & Son, combs, made repairs and improvements. *June*. Shoe factory of Walter Edelstein & Co. destroyed by fire. — Factory of L. F. Morrill & Son, shoes, destroyed by fire; business discontinued. *July*. T. M. Chase & Son resumed operations after shutdown for repairs. *October*. S. C. Noyes & Co., combs, resumed operations after one month's shutdown.

**Weston.** In October, Hook & Hastings changed from private firm and incorporated with capital stock of \$100,000.

**West Springfield.** In July, Agawam Paper Co. shut down for a short time.

**West Stockbridge.** In May, M. Truesdell's Sons sold pulp mill to Leonard F. Beckwith of New York, N. Y.; bought for the purpose of controlling Lake Mackanac for summer visitors.

**Weymouth.** In January, F. E. Hobart purchased property to establish manufacture of women's wrappers. — J. A. Cushman, sole leather, leased and occupied Haskell's factory. *February*. S. Graves & Son sold out to Star Upholstery Co. *March*. H. B. Reed & Co., shoes, leased Fogg factory building. — South Weymouth Shoe Co. discontinued manufacturing shoes, devoting time to leather coats. *April*. M. C. Dizer & Co., shoes, increased capacity. — W. H. Clapp & Co., boots and shoes, changed business. — Loud & Son added new machinery to box-board mill. — Strike of 200 employes occurred in Bradley Fertilizer Works. *May*. Torrey, Bullivant, & Co., boots and shoes, dissolved. — F. Dexter Pratt, shoes, died, aged 61 years. *June*. Strike occurred among female operatives in M. C. Dizer & Co.'s factory. *July*. Factory of John A. Holbrook, shoes, destroyed by fire; to be rebuilt. — Strike occurred among lasters in M. C. Dizer & Co.'s factory. *September*. Work begun on repairs to John A. Holbrook's factory. *October*. Frederick Cate added new engine and machinery to factory.

**Whitman.** In February, strike occurred among employes of Miller Cook, Jr. *May*. Whitman Manufacturing Co. organized to manufacture articles from metal and leather; capital stock \$120,000. — B. E. Cole & Co., shoes, dissolved; to be continued by Perkins, Jones, & Co. *July*. D. B. Gurney's tack factory damaged by fire. *September*. W. H. Daniels & Co., boots and shoes, dissolved; succeeded by Whitman Shoe Co. — Commonwealth Shoe & Leather Co. resumed operations. *December*. Whitman Electric Co. increased capital stock \$15,000.

**Wilbraham.** In May, Wilbraham Woollen Mill destroyed by fire; to be rebuilt.

**Williamsburg.** In January, Williamsburg Manufacturing Co. shut down owing to scarcity of water. *April*. New machinery for manufacture of pail handles added to Hill's saw mill.

**Williamstown.** In July, Boston Finishing Co. incorporated; capital stock \$200,000. *September.* Repairs and improvements made in Williamstown Manufacturing Co.'s mill and operations resumed with reduction in wages.

**Winchendon.** In April, Baxter D. Whitney's machine works resumed operations. *May.* Whitney's machine works shut down for repairs. *August.* B. D. Whitney's machine works started up on half time. *September.* M. E. Converse & Son, toys, resumed operations. — B. D. Whitney made repairs on water wheel. — W. P. Clark & Co. began removal of machinery from this place to Waterville, Me. — L. Corbin established manufacture of surgical instruments. — Glenallan Mills and Village Mill, operated by N. D. White & Sons, resumed operations. *November.* B. D. Whitney's machine works started up after shutdown for repairs on dam.

**Winchester.** In April, James Houston, leather, died, aged 66 years. — Cutting & Co.'s lumber yard damaged by fire. *July.* Eugene L. Perry of leather firm of Griffin & Place, Boston, died, aged 35 years. *August.* Work begun on new manufactory for McKay Metallic Fastener Co.; building to be of iron and stone, 100 x 70 feet; completed in December. *September.* Chas. N. Bacon's felt mills shut down on account of dull trade for six weeks; repairs made about works during shutdown. — Work begun on new tannery and boiler house for Beggs & Cobb. *December.* Joel Whitney, manufacturer and inventor of machinery, died, aged 86 years.

**Windsor.** In September, Windsor Machine Shop resumed operations.

**WOBURN.** In January, Winslow S. Cobb & Co., leather, increased special capital to \$50,000. *February.* Merrimac Chemical Co.'s works damaged by fire. *April.* Factory of Stephen Dow & Co. destroyed by fire; firm leased Maxwell's plant at Winchester Highlands in May and resumed business. *June.* Beggs & Cobb incorporated as Middlesex Leather Co.; capital stock \$40,000. *July.* Business of J. K. Murdock & Co. purchased by Middlesex Leather Co. — Butcher's Rendering Association incorporated; capital stock \$3,000. — Russell Counter Co. ran on short time. — F. A. Loring & Co. went out of business; no successor. — Baeder, Adamson, & Co., glue, damaged by fire. — Merrimac Chemical Co.'s buildings destroyed by fire; to be rebuilt. *August.* Luke R. Tidd, retired shoe manufacturer, died, aged 71 years. *September.* Work begun on new factory for Merrimac Chemical Co.; to be of wood, 90 x 130 feet, two stories.

**WORCESTER.** In January, Pinkham & Willis Co. incorporated; capital stock \$50,000. — Harrison Woollen Mills added new machinery. — New boiler set up in Piedmont Mills. — Thos. Williams put in new engine and enlarged plant. — Whitecomb Manufacturing Co. moved into new building. — Foundation of factory for Washburn & Moen Manufacturing Co. laid; to be of brick and iron, 256 x 120 feet, two stories. — Fires for month: Whitcomb & Miles, shoes; Chas. Baker & Co., sashes and blinds; C. F. Darling, cigar boxes; C. F. Johnson, stairs; and Thomas & Co., cabinets. *February.* E. G. Higgins Co. incorporated; capital stock \$20,000. — Lovell Arms & Cycle Co. incorporated; capital stock \$5,000. — Worcester Corset Co. increased capital stock \$75,000. — Graton & Knight Manufacturing Co. increased capital stock \$100,000. — Lynn Shoe Supply Co. moved here from Lynn and changed its name to Worcester Counter Co. — Porter & Gardiner, lasts, added new machinery. — Wright & Colton Wire Cloth Co. ran nights. — M. J. Whittall purchased land for erection of spinning mill. — Fires for month: Worcester Star Foundry, Wm. Allen & Sons, Dean-Whiting Elevator Co., Worcester Razor Co., and J. F. & C. G. Warren. *March.* Geo. H. Corbett Co. incorporated; capital stock \$6,000. — F. E. Young Co., confectionery, incorporated; capital stock \$20,000. — Worcester Construction Co. incorporated; capital stock \$20,000. — Worcester Oil Co. made additions to plant. — Howard & Cutler established manufacture of card clothing. — Prespey Pero leased new foundry plant. — Union Manufacturing Co., overgaiters, dissolved; continued by W. R. Heald. — Plymouth Lapboard Co. shut down permanently; dissolved by Supreme Judicial Court in October. — Strike occurred among fitters employed in J. W. Brigham & Co.'s factory. *April.* Worcester Machine Works incorporated; capital stock \$7,000. — Quinsigamond Co-operative Baking Co. incorporated; capital stock \$1,600. — Foundation to Arnold & Pierce's foundry begun; to be of wood, 20 x 66 feet, one story. — Foundation completed for foundry of New England Steel Works. — W. F. Bancroft & Co. dissolved and machine shop closed. — Fires for month: Hopeville Mills (picker room) and Abbott Menthol Plaster Co. *May.* Excelsior Cutlery Co. incorporated; capital stock \$5,000; new factory completed and machinery set up. — Goddard, Fay, Stone, & Co. put in lasting machines; lasters struck. — Waite-Bagley Co. purchased and occupied factory of Frank



Wesson Rifle Co. — J. J. Warren, leather goods, died, aged 71 years. — Fire damaged shop of A. Burlingame & Co. *June.* Washburn & Moen Manufacturing Co. increased capital stock \$500,000. — Morgan Spring Co. increased capital stock \$10,000; also began foundations for two new factories, one, brick, 40 x 80 feet, one story, the other wooden, 100 x 144 feet, two stories. — Foundation of addition to machine shop of Reed & Prince begun; to be of brick, 40 x 174 feet, five stories. — Worcester & Millbury Electric Street Railway Co. voted to increase capital stock. — Norton Emery Wheel Co. enlarged plant by two additions; one, 50 x 40 feet; another, 44 x 37 feet, both two stories with basements. — P. Blaisdell & Co., machinists' tools, added new machinery to plant. — Brown, Simpson, & Co. shut down piano department for two weeks. — Knowles Loom Co. reduced force on account of dull trade. — Drapery-Fixture & Wood Carving Co. shut down for balance of year. — O. N. Stark of E. H. Stark & Co., boots and shoes, died. *July.* Arthur C. King Co. incorporated; capital stock \$7,000. — Emerson, Low, & Barber Co. reorganized as Worcester Envelope Co.; capital stock \$38,000. — Ferris Chemical & Color Co. sold to Washburn & Moen Manufacturing Co. — Harrington & Richardson Arms Co. reduced wages. — Worcester Corset Co. reduced working hours to forty per week. — Knowles Loom Works and Crompton Loom Works reduced force one-half for balance of year owing to dull trade. — Worcester Carpet Co. and Washburn & Moen Manufacturing Co. ran five days per week. — Prentice Bros., machinists, reduced force. — Pease Machine Tool Co. discontinued manufacturing and property sold. — Boynton & Plummer ran three days per week. — Piedmont Mill shut down for four months on account of dull trade. — Shutdowns for month on account of dull trade: Cleveland Machine Works, Vocalion Organ Works, F. E. Reed & Co., Powell Planer Co., and rolling mill of Washburn & Moen Manufacturing Co. — Chas. F. Washburn, vice-president Washburn & Moen Manufacturing Co., died, aged 66 years. *August.* Washburn & Moen Manufacturing Co. increased capital stock \$500,000. — Morgan Construction Co. increased capital stock \$10,000. — H. C. Fish Machine Co. added manufacture of dynamos and motors. — Work discontinued on new plant of Morgan Spring Co. on account of dull trade. — W. H. Burns & Co., underwear, shut down. — Cleveland Machine Works shut down for three months. — Tatnuck Woollen Co. shut down indefinitely. — A. W. Ward, Agt., shut down for two weeks; two persons only employed in September and October. — Osgood Bradley & Sons reduced force for balance of year. — Aetna Knitting Co. shut down entire month. — C. C. Houghton & Co., shoes, shut down permanently; no successor. — Factories of E. N. Dean, heels, and John Whitaker, loom reeds, damaged by fire. *September.* Foundation of bottling factory of Thos. Parker completed. — Harrington & Richardson Arms Co. made second reduction in wages. — Bigelow & Darling shut down for two months. — Worcester Woollen Mill Co. shut down for one week. — M. J. Whittall, carpets, ran on half time. — Worcester Carpet Co. shut down for balance of year. — Draper Machine Tool Co. shut down month of September. *October.* Wright Machine Co. increased capital stock \$3,000. — Worcester Thread Co. leased building formerly occupied by Knowles Loom Works and removed machinery here from Clinton. — Minter Nut Co. formed. — Curtis & Marble damaged by fire. *November.* Rice, Barton, & Fales Co. occupied new plant. — Bigelow & Darling dissolved; business continued by Hopeville Manufacturing Co. — Nail department of Worcester Wire Co.'s shop shut down owing to dull trade. — Worcester Woollen Mill Co. shut down for two weeks. — Powell Planer Co. and Harrison Woollen Mill shut down for balance of year. *December.* Mawhinney Last Co. incorporated; capital stock \$30,000. — Kabley Foundry Co. incorporated; capital stock \$12,000. — A. L. Gilman moved into new plant. — Globe Corset Co. started up with reduced force. — Reed & Prince completed new brick addition, 275 x 40 feet, five stories. — Phoenix Plate Co. erected addition, 12 x 14 feet. — Loring & Blake Organ Co. sold to Taber Organ Co.

**Wrentham.** In February, Crook Bros.' yarn mill destroyed by fire. *April.* Knapp-Warren Co. increased capital stock \$5,000, and in May changed its name to The Seymour, Knapp, Warren Co. — Foundation for addition to Bacon & Co.'s jewelry factory started; to be of wood, 20 x 30 feet, three stories. *June.* Plainville Stock Co. and Wade, Davis, & Co. enlarged plant. *August.* Daniel Brown, straw goods, added new boiler. — Lincoln, Bacon, & Co. resumed operations.

**Yarmouth.** In March, F. P. Baker, barrels, died.

**THE STATE.** From the information supplied by manufacturers and from other sources, the preceding Chronology has been prepared. It has been undertaken as a portion of the regular work of the Bureau chiefly in order that its files and records may be kept in perfect condition.

As stated in the Chronology for 1892, "it has been impossible to verify every statement made or printed, and while due care has been exercised it is quite probable that some errors have crept in. Neither is the information considered complete as covering every operation which occurred during the year, but it includes the more important ones."

The foregoing Chronology returns are made from 227 cities and towns, as against returns made from 202 cities and towns in 1892. The following table presents a summary of the facts shown in the preceding pages placed in comparison with the items contained in the Industrial Chronology for 1892:

CLASSIFICATION OF CHANGES, SUSPENSIONS, FIRES, ETC.	NUMBER OF ESTABLISHMENTS REPORTING SPECIFIED CHANGES, SUSPENSIONS, FIRES, ETC.	
	1892	1893
Firms, establishments, and industries new to towns, . . . . .	150	106
Buildings constructed during the year, . . . . .	230	77
Machinery added to plants, . . . . .	198	243
Other additions to plants, . . . . .	157	100
Addition of new class of product to manufacture, . . . . .	20	16
New industrial corporations organized, . . . . .	58	110
Amount of capital stock of new industrial corporations, . . . . .	\$3,708,600	\$5,153,600
Rebuilding of burned factories, etc., . . . . .	19	8
Removals to larger quarters, . . . . .	47	26
Resumption of business after protracted shutdowns, . . . . .	11	4
Use of important new inventions, . . . . .	10	3
Changes from private firm to corporation, . . . . .	31	39
Amount of capital stock covered by such changes, . . . . .	\$1,492,800	\$2,916,000
Changes in firms, firm names, etc., . . . . .	118	89
Changes in character of product, . . . . .	8	5
Changes in character of machinery, . . . . .	9	5
Changes from hand to machine lasting in Boots and Shoes, . . . . .	13	2
Consolidation of firms and corporations, . . . . .	4	13
Increases in capital stock, . . . . .	17	40
Amount of increase in capital stock, . . . . .	\$3,305,000	\$4,713,200
Decreases in capital stock, . . . . .	-	5
Amount of decrease in capital stock, . . . . .	-	\$269,600
Net increase in capital stock, . . . . .	-	\$4,443,600
Removals of firms and industries to Massachusetts from other States, . . . . .	12	3
Removals of firms and industries from Massachusetts to other States, . . . . .	5	11
Removals from one town to another in Massachusetts, . . . . .	31	35
Increases in number of employés, . . . . .	23	19
Reductions in number of employés, . . . . .	-	63
Increases in rate of wages paid, . . . . .	11	3
Reductions in rate of wages paid, . . . . .	1	87
Increases in hours of labor per day or week, . . . . .	-	27
Reductions in hours of labor per day or week, . . . . .	-	148
Running overtime and nights on account of rush of orders, etc., . . . . .	76	45
Introduction of electric lighting and power into factories, etc., . . . . .	15	11
Suspensions for vacations, . . . . .	96	10
Suspensions for stock taking, . . . . .	-	17

CLASSIFICATION OF CHANGES, SUSPENSIONS, FIRES, ETC.	NUMBER OF ESTABLISHMENTS REPORTING SPECIFIED CHANGES, SUSPENSIONS, FIRES, ETC.	
	1892	1893
Suspensions indefinite as to duration, . . . . .	21	40
Suspensions for curtailment of production, . . . . .	6	1
Suspensions on account of dull trade, . . . . .	3	94
Suspensions on account of low water, . . . . .	10	10
Suspensions on account of high water, . . . . .	-	15
Suspensions on account of strikes and lockouts, . . . . .	*	150
Suspensions on account of accidents to machinery, . . . . .	43	200
Suspensions for repairs and improvements, . . . . .	56	68
Suspensions (cause not given), . . . . .	-	292
Retirement from business (no successors), . . . . .	29	32
Dissolution of private firms and corporations, . . . . .	2	31
Auction sales of industries or plants, . . . . .	9	9
Sales of plants in whole or in part, . . . . .	85	86
Sales of plants to syndicates or trusts, . . . . .	2	8
Fires during the year, . . . . .	283	288
Plants damaged by explosions, . . . . .	11	12
Deaths of manufacturers, . . . . .	59	85

\* Not reported in 1892.

It will be seen from the first line of this table that, in 1893, there were 106 instances of new firms, establishments, and industries reported as established for the first time in the cities and towns under consideration. By the second line, 77 new factory or mill buildings were reported as being completed during the year 1893; this number does not include those factory or mill buildings announced as started, only those reported as being completed during the year. In the fourth line are included the addition of new wings, storehouses, or similar additions to factories already built. There were 288 cases of damage by fire in 1893 and eight instances of rebuilding of burned factories. Undoubtedly the other factories were either repaired or rebuilt, but no report was made concerning them. The other lines of the table may be read in a similar manner.

In the following table we present, by months, the number of suspensions as recorded in the preceding table for the year 1893:

MONTHS.	CAUSES OF SUSPENSIONS							Totals
	Vacations; Stock Taking	Indefinite; Not Given	Accidents; Low Water; High Water	Repairs and Improvements	Curtailment; Dull Trade	Retirement; Dissolutions	Strikes	
January, . . . . .	5	8	8	2	-	2	5	30
February, . . . . .	2	-	42	1	-	5	9	59
March, . . . . .	-	3	4	6	-	13	38	64
April, . . . . .	1	4	3	4	1	8	28	49
May, . . . . .	1	6	17	6	4	12	20	66
June, . . . . .	1	9	128	2	2	3	10	155
July, . . . . .	7	52	1	15	15	3	3	96
August, . . . . .	4	124	4	11	55	6	5	209
September, . . . . .	-	47	5	10	9	2	10	83
October, . . . . .	-	30	7	2	3	7	12	61
November, . . . . .	3	24	4	7	5	-	8	51
December, . . . . .	3	25	2	2	1	2	2	37
TOTALS, . . . . .	27	332	225	68	95	63	150	960

Condensations have been made in the first, second, third, fifth, and sixth columns in the above table. In the first column suspensions for vacations have been combined with those for stock taking; the latter occurred in the following months: January, 5; February, 2; April, 1; May, 1; July, 2; August, 1; November, 3; and December, 2. In the second column we have combined those reported as "indefinite as to duration" with those for which the cause of suspension was not given; the former occurred as follows: January, 1; March, 1; June, 2; July, 5; August, 10; September, 3; October, 7; November, 5; and December, 6. It is to be regretted that 292 establishments had to be classified as not giving the cause of suspension, but it was undoubtedly occasioned by the general depression in business. In the third column the causes of suspension are combined as follows: Accidents to machinery — January, 6; February, 40; March, 4; April, 3; May, 3; June, 128; August, 2; September, 4; October, 5; November, 4; and December, 1. Low water: January, 2; February, 1; July, 1; August, 2; September, 1; October, 2; and December, 1. High water: February, 1, and May, 14. There was but one instance of suspension for curtailment of production, it being reported in the month of April. Suspensions on account of retirement from business and the dissolution of private firms and corporations have been consolidated in the sixth column; the latter occurred as follows: January, 1; February, 3; March, 5; April, 7; May, 5; August, 3; September, 2; and October, 5.

The 288 fires reported as having occurred during the year 1893 were distributed through the following months; comparative figures for 283 fires in 1892 are also given.

MONTHS.	NUMBER OF FIRES		MONTHS.	NUMBER OF FIRES	
	1892	1893		1892	1893
January, . . . . .	36	32	July, . . . . .	16	28
February, . . . . .	25	27	August, . . . . .	16	17
March, . . . . .	25	34	September, . . . . .	13	14
April, . . . . .	28	27	October, . . . . .	19	17
May, . . . . .	40	23	November, . . . . .	28	18
June, . . . . .	18	23	December, . . . . .	19	28

















